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| 224<br>229<br>229<br>330<br>231<br>231<br>231<br>231<br>231<br>231<br>231<br>231  |   | 6533<br>9964<br>9964<br>99664<br>9359<br>9469<br>105<br>9400<br>976<br>976  | AX375<br>BC010<br>AF36<br>AX478<br>AX478<br>AE271<br>AF247<br>AF247<br>AF247   |   | AX321 E. Harriston AX321 |
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Curl Drive, San Antonio, 1X 78284-7765, USA
Location/Onalifiers
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Homo sapiens amino acid Transporter hNAT3 mRNA, complete cds.
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Gu,S., Adan-Rice,D., Leach,R.J. and Jiana,J.X.
A novel human amino acid transporter, hNAT4: cbnA cloning,
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/product "amino acid transporter hNAL4"
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du, S. M. and Jianq, J.X.
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TERTONTOSESIJCONVEFVSVVIKKROJEPPLDHSVGHJENVATIKHTWHYNITH
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ALPITVRAFVCHPOKLDIYSEKKORSKRKMOTVSNISTICMIJMYLLAALFOYLIFYG
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99.8%; Pred, No. 0;
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Bonco sapiens adult cDNA to mRNA, clone\_lib:human liver sDNA library ConnectATA's. Bonco sapiens Ebkaryota: Metazoa; Chordata; Craniata; Vertebrata; Ebteleostomi; Mammalia; Butherla; Primates; Catarthini; Hominidae; Homo.

CRCANISM

REFERENCE AUTHORS

Matsuo.H., Kanai.Y., Kim,D.K., Cha.S.H., Chairoungdua.A., Fukuda.J.

and Endon, H. Molecular and characterization of a movel system A amine Unquelished

(bases 1 to 3633)

Kanai, Y.

JOURNAL, AUTHORS JOURNAL

TITLE

Direct Submission
Submitted (24-2001) Yesbikatsu Kabai, Kyorin University School
Submitted Apartment of Pharmaroley and Exicology, 6-20-2
Shinbaka, Hitaka, Tokyo 181-8611, Japan (France)
Faxiotionelly Specific action of Specific Specific

Condanism="Homo sapiens"
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PEATURES

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| 949   | 100                                  | 106<br>109                        | 112                                       |  | 124   |   | 1369<br>1393  | 4 4   | 1489<br>1513  | 1549  | 1609        | 1669<br>1693                         | 1729     |   |   |
| 990 AAGAAATTCCAAATACCCIGCCCTCTACCTGITTIGGATCACGTGTTGGAAAICTGTCA<br> | TSGIAATGTYACCAACAACTGIGAGAG FICH<br> | ACCACGCAATCCTSCAGGCTGGALGAGAA<br> | O AAGGSCESTSTCATGACAGEGGGEGAGAATAFGAA<br> | 1130 CCCAANTACTTGTATTCAACTCCCGGGCGTATGCAATLUCLALUCUAGATTTGCT<br> | TTIGTATGCCACCOGAGGCCCTTCCCATCCACGTGAACTTAAAGATCGGTGCCGG | 1250 AAAATGCAAAGGGTGTCAAATALLICCATCACGGGGATGCTGTGTGTACCTGCTTGCC<br> | 1319 GCCCTCTTTGSTHACCIANCCTCTATGCAGAGTTGAAGATGAATTACLICATGCCTAC<br> | ACATZAGACHICHCHCHCAGAGLIGGCAGLGCHGCAGLIGCHGGGCA<br> | TANCACAAACIGIGGGGGTIGIGGLCTTTGCCAATIGGTACATCAGTGATCACTGGTTA<br> | 0 TTTTTTAAASSAOCSIIGANTESAAJAOSAACIIGGIGALIGGAAGGAAGGAAGGAAGGAAGGAAGGAAGAAGAAGAAGGAAGATGAAGAA | GATTCATAGGG | HANACITGIC<br>HILLIIII<br>HAAACITGIC | 36A      | © AIATELLICALUALIGUAAGCAGGGACTCATTATAATTGACLGGALFTAUGAECCTCCA<br> | 99 AATTOSAANTALOASTAA SAASSAAAAATAS TBUS<br>THITTHITHITHITHITHITHIT<br>14 AATTOSAASSAFASTAASSAAAAAAAAAAA 1846 |
| cy<br>Dp  | 9y<br>Ub                             | 94<br>15                          | Oy<br>DP                                  | QY<br>DP   | Ç.,   | 8 8   | Cy<br>Db  | 6;;<br>bb   | 5 G   | Q7.   | ςλ<br>Db    | 0.7.<br>P.P.                         | QY<br>Db | 2y<br>Db  | A 4   |

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авизьовоз 3633 bp mRNA linear PRI 25-JAN-Hore sapiens hATAS mRNA for system A amino ucid transporter s, Angrees.

AB055003.1 CI:18369788

AR055003

DEFINITION ACCESSION VERSION

RESULT 4 AB055003

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| 360  | 552<br>420  | 612<br>480   | 672<br>540  | 7.32  | 792   | 852  | 912<br>780  | 972<br>840   |  | 110<br>96   | 1152  | 1212<br>1080   | 127.  | 1342   | ± €  | LC. CN  | - xc   | 1572  |
| CAST-GOSATOTTS   THE PROPERTY OF STATE   THE PROPERTY   THE PROP | CATGCTSCTTGCTGTGGGAAVATTAPPACEGAFFCAGTFCACTTTTAFFAAAACAGC<br> | F. PARSGARGGANGGTCTFTGATTTATGARAAATTAGGAAAAAGGATTTGGATGGCCGGG<br>TELLITTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT | AAAAATTGGAACTTTTGTTTCCATTA"AATGPAGAACATTGGAGGATAATGTCAAGCTACCT     HTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT | 3 CTTTATCATTAAATATGAACTACCTGAAGTAATCAGAGCATTCATGGGACTTGAAAA<br> | TACTODAGAA 1961 A/2012/AA/1902/AA/21A/22/A/A/ALTITOLOFICE FOSAATTAL<br> | TOTTFORGETINGGERGCTTAAAATTTAGETTAACTTGGCTATAGAAGERATTTFCTFOF<br> | IACCTICATREFER HTTTEGTAGEGEGEATHACACACACACACACACACACACACACACACACACACA | TOTACTTOTITIONATORCAGING FORMANTED   AT FEMALAROUSTICOAMODA   FELLINI   FE | IGROCHAARGTEACCCAACACTCAGAGTECLGATGTGAACTFCATGATGGATTAGACTTLAGATTHTHTHTHTHTHTHTHTHTHTHTHTHTHTHTHTHTH | COALCOCATICTICAGAGGCTGGATGAGAACGAGAGGTCTCTTAATGAGAGTGG     LITTITITITITITITITITITITITITITITITIT | ASTANAATATGAANTOATASTISALSAOAASTIGIGAAOD DAALACTT ESTATTCAAGEG     LELLELLELLELLELLELLELLELLELLELLELLEL | OCGRANSBOWTATGCAATTCCTATCCTACTATTCCTTTTCTATCCCACCTCCT     THILLIHIHIHIHIHIHIHIHIHIHIHIHIHIHIHIHIHI | F TOCTATCTACAGECAACTTAAACATOOGTCCOCAGAAAAAATOCAAACAGETGECAAATAT<br> | * TTRIVATGACONSTATOLIGICALGITACHOLIBACOCH GOLIAGOLIAGOLIAGOLIAGOLIAGOLIAGOLIAGOLIA | 3 CIATOJAGAAAJITOAAAGATOAATTACTEOA OGOTTATACAAAAJIGTATACATTACACAT | COCHCTTCTCATGGTTGGCTGGCAGTCTTGTGCAGAGACACAACCTGTGCCTGTGCCTTTTTTTT | CCTCTTCCCAATTCCTACATCACACACTATTACTACTATACCCAAACGACCTTCACTC     HTTTTTTTTTTTTTTTTTTTTTTCCAACCCTTCAGCTC     CCTCTTCCCAATTCCTACATCAGGGATCACACTCTTTTTTTT | 3 GATACGACATICCFGATIGCAGCTGTGCTTALIGCACTIAATAATGTFCTGGTCATCCT |
| 301  | 493   | 553  | 613   | 673   | 733   | 794  | 854   | 781  | 97 4<br>R.4.1  | 1033  | 1093<br>961   | 1154   | 1214<br>1081  | 1274   | 1333   | 1393  | 1453   | 1514  |
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Mammalla, Buthoria, Primates, Catarrhini, Bominidae, Romo.
1381 GATACGACATTIPCTGARTGCAGCTGTGCTTATTGCAATTAATAATGTTPTGGTGATOTT 1440
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                                                                                                                          1633 TTTTATLCTFCCAGCAGTTTTFTATCTFAAACTTGTCAAGAAAGAAACTTTTAGGTCACC 1692
                                                                                                                                                                                                                                                                                                                 1253 GREATTATATATTGACTGGATTTATGATCCTCCAATTCCAAGGATCACTAACACAA THEA
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| o o                  | 555 AGGARAGAGAGGTCTTGGTTTATGAAAATTAGGAGAGGCATTTGGATGGCGGGGA 614<br>  | 9.7<br>Db                |
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| डे <b>र्त</b>        | 7-45 -CHOGAGAATGATACCAATGACAACTACATATHIGTGLGLGLIGGAATTATTC 794<br>  HTT    HTT  | RESUL<br>BC024<br>LUCUS  |
| ýy<br>Qú             | 795 TTCCACTTTCGCTCCTTAAAAHTTAGGTTAUCTTGGCTAFAGCAGTGGATTTTTGFCTTTA 854<br>  1611   1614 | ACCE<br>VERG             |
| 5 d                  | 855 COTGNATGOIGHTITTGTTAGTGTGNIGAILLANAGAAATIOGAAATAGCCTGCCTC 914<br>[[  | KEYWOI<br>SOURCI<br>ORGA |
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| ey<br>Eb             | 1035 ACCREATECTGYAGGETEGATAACTAEGCYAGGETECTTCATGACAGTGGAG 1054<br>1111   11   111111111111111   111111   111111  | COMME                    |
| \$ E                 | 1095 TAGAATATGAAGCTCATASTCATCAAAGTGTGAACCCAAATACTTGTATCAACTCCC 1154<br>  H   |                          |
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HOUSTIDE MAIN ELKIN CLMA 1700012A18 game, Plear MAC, 2730A MAGRESO98067, mkNA, complete eds.
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Mammalia, Entheria, Rodentia, Sciuroquathi: Muridae, Muridae: Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Submitted (19-FEB-2002) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MP 20892-2590,
                                                                                                                                                                          stevni Jones, Jennifer Asano, Tan Rosdot, Yaron Buttorfield,
Susanna Chan, Readman Chin, Chris Fjell, Erin Garland, Edn Octo.
11.22 GOAGGO STREEMENTECCAATGETGESTINGTTIKGTTIKGTTAAGGOAGGOOFD THE
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common Library Arrayed by: The L.M.A.G.E. Commontium (LLML)
DNA Seguencing by: Genome Seguence Centre,
HC 'amore: Agency, Vancouver, HC, Canada
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Tissue Procurement: Jeffrey E. Green, M.D.
cDNA Litrary Preparation: Life Technologies
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Letticia Hsiao, Martin Fryyzinski, Beta Kutsche, Oliver Lee, Soo Sen Lee, Victor Ling, Carrie Mathewson, Candice McLeavy, Steven Sen Se, Pawan Pandoh, Anna-Laisa Frabbu, Farianch Saceda, Jacqueline Schein, Duane Smailus, Michael Smith, Lorraine Spence, Jeif Stott, Michael Thoine, Mitanada Isai, Kalas, an den Busch, Jiir Valdy, George Yang, Scott Zuyderduyn, Marco Maira.
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Clone distribution: MGC clone distribution information can be found through the LW A.G.F. crass-clinawillar, at although all generates: FRAK Plate: 57 Row of Column: 1. This clone was selected for full length sequencing because it passed the following selection criteria: Hexamer frequency ORF

/db\_lef "Location of the passa"

Chanslation="Mopwallanvisted of the passa"

EDAESGKELTROFICKKLADYADEHHPGMTSFGMSSFOLISMAIMSGFAN

EDAESGKELTROFICKKLADYADEHHPGMTSFGMSSFOLISMAIMSGGTLGLSYAMAN

TGILLFTIMLLTVAILSLYSVHLLLKTAKEGGSLITERIGERARGWPGKTGAFTSTPM

ONLGAMSSTETTIKELDFWTRAFMGELEN GEWERT KANNT LULLE VSVGILLBLISLLKN

LGYLGYTSGFSELSGWYFEVSVYLYKKFOIPOPLPALDHNNGNLFFWTLDIPLISLLKN

EGYLGYTSGFSELSGWYFEVSVYLYKKFOIPOPLPALDHNNGNLFFWTLGLIBLISLLKN

AIPILAFFYCHPEVLIP IYSELKDRSFRKMOTVSTRISLGMWYLLAFAFFVRNSTFY

DVEDBELLHAYSKVYTFOTALLWYRLAVLVAYTHTVP IVLFFPTRYSFYG

KKFGILAALITALNILVILVPTIKYTFGFIGASSATMLFFILPAAFFYLLEPRKFFSR

4779 C.

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ANDER SENTIMENT IN TOTAL KYTFGFIGASSATMLFFILPAAFFYLLVKKFFPLR

ANDER SENTIMENT IN TOTAL TO /clone="MAY \*/Auth !Math:Sugges?" /Lissue\_type="Liver, normal. 5 mouth old male mouse." /cione\_lib="NCI\_CGAP\_Lig" /lab\_host="nHil08" /product="RIKEN cDNA 1700012A18 gene" /note-"Vector: pCMV-SPORT6" /organism="Mus musculus" /4k\_xiof "taxon.10000" /map="FVB/N" /protein\_id="AAH24123.1" /db\_xref~"GI:18848350" Location/Qualifiers /codon\_start=1 1722 507 a Source COUNT CDS

U; Gaps DB 10; Length 1957; suz; indels 65.5%; Score il92.%; DB 10 82.0%; Pred. No. 1.4e 305; tive U. Mismatches 302; Conservative Best Local Similarity Matches 1374, Couser: Query Match

183 GAIGATEAGAGAGGAGGAGAAAAGTGGTGGAGATAGGTAGATGAGGATAGAATTGA 262 323 ASAAALSAMITITTSGGSAAAAAAAAAAGSKGCAGALLALGUTGATGAACACCALCCOGGA 382 283 ACCASTICCETISGAAISTSTICALLIAACCICACIAALGCCAFCAIGGGGGGGGGTC 442 | HTTLLHILLHILLHILL HTTLLHILLHILLHILLHILLHILLHILL 298 ATSASITSCITTSGAALGLOCICALLIAACSIGAGGAACGCCAFCAIGGGGAGGGGGTG 357 443 CTGGGGLIGIGGIA/GCCALGGGGTACACAGGGGGGATATATATATATCATGCIGGTT 502 503 GCT-H-GGTAATATTATCACTGTATTCAGT1CAGGHTGTALLAAAAAGAGCAAGGAAGGA 502 å qq G qq ó

418 ACTOTOGEAATACLCTGGCTCTACCTTTTGCTGAAGACAGCCAAGGAAGA 477

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LOYLOY ESGESISCMYFFYSYV IYKKIQ TEFLELININGNIST FKNYLETHINISLIT
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Submitted (24 MA 2021) Yrahibatan Ennat. Epirin University School
Submitted (24 MA 2021) Yrahibatan Ennat. Epirin University School
Of Medicine, Department Of Pharmacolly and Toxicology; 6-26-2
Shinbawa, Mitaka, Tokyo 181-8611, Japan
(E-mailiykhuni Egyeri vivi) yi in all all 122 12 CTII(23.2453),
Paxxi-81-422-79-1321)
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Mammalia: Butheria, Rodentia, Sciarosnathi, Munidae; Murinae; Mus
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Library clone:IMAGE:1482090.
                                                                                                                                                                                                                                                                                                                                                                                               Obery Match 65.98; Score 1192.8, DR 19; Length 1977; Rest Local Similarity 82.08; Prod. No. 7.40-305; Batches 1974; Censoryatisc 0; Mismatches 202; Endels 0;
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1941 kp. nkNA linear Feducation of AND-2002
Mus musculus, solute carrier family 38, member 4, clone MGC:25858
IMAGE:4195569, mkNA, complete cds.
                                                                                                                                                                                           Eukaryota, Motazsa, Chordata, Braniata, Vertebrata, Euteleostom).
Mammalia: Eutheria: Rodentia: Sciurognathi: Muridae: Murinae: Mus.
                                                                                                  BC031717.1 GI:21594478
                                                                                                                                                                          Mus musculus
                                                                                                                                                   house mouse.
BC031717
                       DEFINITION
                                                                                                                                                                       ORGANISM
                                                                        ACCESSION
VERSION
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                                                                                                                         KEYWORDS
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RESULT 11 BC031717

Direct Submission Submitted (06-JUN-1902) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genemics Office, National Cancer Institute, 31 Center Drive, Room 11AO3, Reliesda, MD 20892-2590, (bases 1 to 1941) Strausberg, R. TITLE JOHPNAL

AUTHORS

REMARY

COMMENT

HIII MGC Froject UKL. http.//mgr nr: nin gr. Contact: MGC help desk Email: capaba-temail.nih.gov Tissue Procurement: defrey E. Green, M.D. CDNA Library Tregatation: Life Technologies, Inc. CDNA Library Arrayed by: The I.M.A.3.E. Consortium (LLNL) Sequencing by: Baylor College of Medicine Human Genome Sequencing Center

Center code: BCM-HGSC Web site: http://www.hgsc.bcm.tec.odg/odng/ Contact: angled: Luc.cdu Gunaratine, P.H., Garcia, A.M., Lu, X., Hulyk, S.W., Hale, S.M., Yoon, V.S., Kowis, C.R., Lawrence, S., Martin, R.C., Muzny, D.M., Richards, S., Gibbs, R.A.

Clone distribution: MGC clone distribution information can be found through the L.M.A.G.E. Consortium/HANL at http://image llnl.gov Series: IRAK Plate: 30 Row: c Column: 20 This clone was selected for full length sequencing because it passed the following selection criteria: Hexamer frequency ORF analysis, Samulatic, but not identity to protein.

/organism-"Mus musculus" /db\_xref="taxon:10090" /map="FVB/N" Location/Qualifiers

FEATURES

745 CTACCTCAATGGCAACTAGCTGATCATATTTGTTTTGGAATTATTTTTC 864 HITTIII HITTIIIIII II ELEHIII ELEHIIIII ELEHIIII ELEHIIII ELEHIIII ELEHIII ELEHIII ELEHIIII ELEHIIIII ELEHIIII ELEHIIIII ELEHIIII ELEHIIIII ELEHIIIII ELEHIIII ELEHIIIII ELEHIIII ELEHIIIII ELEHIIII ELEHIIIII ELEHIIIII ELEHIIIII ELEHIIIII ELEHIIII ELEHIIIII ELEHIIIII ELEHIIIII ELEHIIIII ELEHIIIIII ELEHIIIII ELEHIIIII ELEHIIIII ELEHIIIII ELEHIIIII ELEHIIIII ELEHIIIII ELEHIIIIII ELEHIIIIII ELEHIII 805 GCTCCTTAAAAATTTAGGTTATGITGGGTATATGAGATIIICHGHACHGCHGCATGGI 864

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44. GIGTGTAARCIALGAAAAATGGGGGAGAAAGATTIGGATGGCGTGGGAAAATGAAGS 500
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/protein_id="AAMH3171,1"
/db_aref="G1:21564479"
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oligo capping; tis (full insert sequence).

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ACCESSION

VERSION KEYWORDS

| 740  | 924  | 984  | 1044   | 1104<br>980   | 1164   | 1224  | 1284<br>1169   | 1344<br>1220   | 1404<br>1280  | 1464<br>1340   | 1524  |   | 1641<br>1520  | 10 00 01  | 1764<br>1640  |  |
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AROTOTS THE CORA FLATFOLD LIS, choice HERMSALO04756, weakly similar

to Human transporter protein mRNA.

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AKOOTOS 1.0.705 Genomics Laboratory; 1532-3 Yana, Risarazu, Chiba 292 0812, Japan (E-mail: 940-000); 1532-3 Yana, Kisarazu, Chiba 292 0812, Japan (E-mail: 940-000); Pol: 81-848-52-875, Fax: 81-84-8-62-800) Hillish isonicschinicolly. Pol: 81-848-52-875, Fax: 81-84-8-62-800) Hillish formational Trade and Industry of Japan; eDMA INII Insert sequencing, Research Association for Biotechnology construction. 57-6-8-37-end one pass sequencing and clone selection: Helix Posecarch Institute (supported by Japan Key Technology; Function: etc.) and Department of Virology, Institute of Medical Science. TOTTLETTMLLAVALLSLYSVHÄLKZTAREGOSLIYERCHEKAFONIOR FYREVSTYN ONTOAMSSYNTTEKTEFEVIRATENTOENYLHENYLTIVOOTTHETSTRA ONTOAMSSYNTTEKTEFEVIRATENTOENYLHENFE" ONTO C. 100 C. , talansalata in "Michelenyaderi deregenyari per olih reperiori param edtesokeltyngelokkkiladyaderiing periomasi piarahadaga i adagaahan Home sapiens Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Enteleestomi; Eukaryota: Metazoa: Chordata: Craniata: Enteleestomi; Sapiens embryo, 10 weeks whele embryo, mainly head cana to clone\_lib:HEMBA1 clone:HEMBA1004756. 4) MAKLIAKUBAGAGAGALGI CIGAMZA ICANAMAKAGAKUGANAKUTI I KAGUNMA TUR 281 AGTCAAT (FOCT AATGAAGACACTGAAAGTGAGAAATTCCTGACAAATGGATTTTFOOGG 340 27 \* CAZALOGALOGALOGANGAACHGAGAAALGHGAACALGGAACGAGALGAGAGAGAGAACAAL Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 221 GSAGAAAGTGTTGČAGATAGTTAGATGAGATAGGAAATTGAGAAAAGGTAGGAAAGG 16.0%, Score 83.8; LB 9; LGFH; 1729; 98.5%; Pred. No. 2.6e-211; Indels 0; Mismatches 12; Indels 0: //issue\_type-"whole embryo, mainly head" /clone\_lib="HEMBA1" /note "cloning vector: pME18SFL3" Zhote- "unnamed protein product" dem stage "embrye, 10 weeks" NEDO human cDNA sequencing project /codon\_start\_1 /protein\_id+"BAA91481.)" /dE\_xref="G1:7022083" /organism-"Homo sapiens" /db\_xret-"taxon:9506" /clone "HEMBAld04756" University of Tokyo. Localion/Oualitiers Sogai, T. and Otsuki, T. Home sapiens embryo, Laral Similarity 98.6%; (bases 1 to 1729) 1055 Conservative Direct Submission 1729 Unporblished mKNV, Matches 845; Swory Mateb Source TRIVERSI BASE COUNT AUTHORS REFERENCE ALTHIB DURNAL. REFERENCE FEATURES THIE COMMENT SOURCE ORIGIN Rost Ë 3 ô 윤 ŝ 5

Score 506.6, DB 6; Length 2320; Pred. No. 2.2e-123;

Query Match Best Local Similarity

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DNA Res. 7 (1), 65-7 (2000)
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/rissuc\_type "brain"

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Actore_lib="pellucscript!! SK plus"
Anote "this sequence was obtained by subcloning of the CNA
fragments derived from two clun clenes (1 * 289 was
derived from a MT-PCR product (Brain) and 290 + 4444 was
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /gene-"KIAA1882"
/note-"Start codon is not identified."
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0; Mismatches 514;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /product "ElAAl382 protein"
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| TITTIGITADIGIGGGATTIACAAGAATICCAATACCCIGCCTGTACCTGTTTG 92  [CITTCTGATTGIGGAATTTCAGGATTICAGGTTCCGGTGTCTGIGGAAGCIGCT 75  AICACAGTGTTGGAAATTTCAAGAACGCTTCCGGTCCTGIGGAAGCIGCT 75  AICACAGTGTTGGAAATCTGTCATTCAAGAACGCTTCCGGTCCTGIGGAAGCTAATGTTA 98  TGATAATTAACGAAACAATAAACACCAGCTTAAACAAACA | ACTAGATATGAA<br>TTTGTGAGATA<br>CGGGGCGCTAT<br> | 128<br>100<br>134<br>106<br>106<br>112      | THE PROTECT OF STANDARD CANACTOL GOOD AND THE COCAMINATION AND THE PROTECT OF THE | GCACTTTTTAICTTAAACTTGICAAGAAACHULIAGG CACUCCCAAAAGGICGGG 1705  [ |
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| 869.<br>924<br>75.<br>75.<br>794  | 4 0 0 0 c 6                                    | 1226<br>943<br>1286<br>1003<br>1346<br>1063 | 1466<br>1466<br>1183<br>1526<br>1243<br>1303   | 1646<br>1363<br>1706<br>1423<br>1766<br>1483                     |
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AF259799 4479 bp mkNA linear PFI 24-APE-2001 Homo sapiens amine wold transporter system A2 (ATA2) mKNA, complete

AF259799 AF259799

> DEFINITION ACCESSION VERSION

RESULT 15 AF259799 AF259799.1 GI.13751655

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/product = "MAX 8850.1"
/product = "MAX 8850.1"
/#I are: "OI 105165."
/#I are: "OI 105165..
/#I are: "OI 10516
Homo sapiens.

Bukaryota, Metazoa: Chordata: Craniata: Vertebrata; Entelcostomi;
Bukaryota: Metazoa: Chordata: Craniata: Vertebrata; Entelcostomi;
Mammalia: Entheria; Primates: Catarrhini; Hominidae: Homos;
1 to 4479)
Halamaka,I., Hashay,W., Wang,H., Sugawara,M., Prásad,P.D.,
Forbrey: Els. and Ganapathy,V.
Primery: Els. and Ganapathy,V.
Primery: Els. and Ganapathy,V.
Primery: Clistical and Alfa, a Subtype of amino acid transport, system A 20439598.

1093358
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               206 CATGROADCACCACTOGAGAAAGTGCTCCAGATAGATATCAGGALAGGAAALLOAGAA 265
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| à qq  | 626                | TTTGTTTCYATTACAARGAACATTGGAACAAFGTCAAGGTACCTCTTTATCAFFAAA 685<br>  |  |
| S S   | 5.41               | FATGARCHAGGEGAAGHARGAGAGATTGATGAGACHGAAGAAAATGCGAGAAHGG 745<br>THTI THTI HITH HITH HITH HITH HITH HITH   |  |
| 8 d   | 746<br>591         | TACCTCATGCACACTACCTCATATITGTGTCTGGAATTATICTTTCACACTTTGG 805<br>11 11 11 11 11 11 11 1 1 1 1 11 11 1 1 1  |  |
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| à à   | 866                | TTTTTTUGTTAGTGTGATTTTACAAGAATTCCAAALACGCTGTGGCTCTACCTGTTTTG 925<br>  |  |
| ਤੇ ਜ਼ਿੰ   | 926<br>771         | GALCAGAGIGTTGGAAAAGIGIGALIGAAA AAGAGAGT LOTAA PROALGIGGIAA I CITA 985<br>  |  |
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| 131   | <del>*</del><br>** | 813  |  |
| 강 출   | 1046<br>814        | GYAGGYTGGATGAGAAGCAAGGGCTCTCTTCTTGATGAGAGTGGAATTAGAA 1105<br>  TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  |  |
| 5 to  | 1106<br>843        | OCTOATAGTGALGAACAAGTGTGAACGAAATACTTTGTATTCAACTCGGGGGGGG  |  |
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entire insert of this clone, overlapping regions of clones are only sequence and submitted once, so the sequence for the regimen of the insert may be found in the record for the adjacent clones, overlapping clones are noted at the beginning and end of the
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                                                                                                                                                                                                                                                                                                                                                                                                    (Bases 1.15.16799), Bouck, d., Bunacke, then, Z., Dind, Y.,
Budan, S., Durbin, d., Porcum, d., Garria, C., Gorrell, d. H.,
Forrell, t., Hernarder, J., Iss. 1. A., Larkson, L., Eneltz, S.,
Evandelowski, N., Han, S., Leal, B., Lack, B., Bich arque, O., Did, W.,
Erian, C., E., Caral, d., Martinez, C., Merscher, S., Millor, A.,
Mantlam, J. E., Chan, Campell, E., Tarish, B. J., Ferry, L.,
E., E., E., E., E., E., Martinez, C., Martinez, C.,
E., Martinez, M., Martinez, C., Martinez, C., Martinez, C.,
Zhan, X., Kepherlapati, E., Helson, D., and Gible, R.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Submitted (10 Jul. 1999) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, IX 77030, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Submitted (17 SEP 1999) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor college of Medicine, the Baylor Plaza, Houston, TX 77030, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STEE are identified using cPTE (Geneme Res. 7:54:-50) searches of a local database that includes entries from duSTS, 608, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Submitted (01 SEP 1999) Haman Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
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                                                                                                                                                                                                                                                                                                                            Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Homo oupliens 12413 62.7 72 BAC RPC111-50520 (Roswell Park Curver
That teste Homon BAC Library) complete Sequence.
ACO8014
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                                                                                                                                                                                                                                                                                                                                                                Mammalia, Butheria, Primates, Catarrhini, Hominidae, Heme.
1. (Sases 1-ts-19799)
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Worley, K.C.
Direct Submission
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AUTHORS
                                                                                                   ACCESSION
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standard of double strand coverage with a minimum of 2 clones and 2 reads with no ambiguities or 2 chemistries with a minimum of 2 clones and 3 reads with no ambiguities. If the sequence quality to

Tacar PRI 07 MAR 2002

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167929 146

AC008014/c

SOLON.

RESHLT 2

SEQUENTING READ COVERAGE: Sequencing is completed to a minimum

identical matches are annotated as similar

miso\_feature

a region does not meet this standard, it will be indicated in the annotation as Low Coverage.

QUALITY OF INDIVIDUAL BASES:This sequence meets stringent quality standards - estimated error rate less than 1 per 10,000 bases. Peports of lowest quality individual bases and measures of base quality are listed below. Description of the metrics can be found that the http: 49 becomes a weak, and the metrics can be found that the best below.

OUALSTAT-REPORT-----

Contig length: Summary Statistics 167939
Phrap values in estimate: 167843
Average error rate (BCM Phrap estimate). 6.73211e-05
Fraction of Phrap values less than 40 : 0.0231645
Number of consensus chanqing edits: 0

ataaaaattg(t)gtatatataa aacatatatg(t)atatatt qetetaqqta(q)aqeetttaqt tagagagaa(a)acagactoc tataltaada(a)tatatacaaa tattaaaaat(a)tatacaaata ttaaaaatat(a)tacaaatata ctttcccygg(a)aggagggaag tatettgtta(e)tetttagtge tetttagtge(t)attaagtaat tttagtgcta(t)taagtaatga ctotgtoado(c)aygotgágt atotttaaat(c)gtagotgoto aaquitgila(a)aaalatatat cattgilaaa(a)atatatat taatagggga(a)aatattgtgt Edited:Context Consensus changing edits -taalayyyya(n)aalattatgt ctctqtcacc(n)agyctggayt alctttaaat(n)gtagctgctc aacatlgtta(n)amalalalal cattgttaa(n)atatatal tatattaaaa(n)tnthidoada Lallaadant(n)tniacaaata ttaaaanint(n)taraaatata geteíaggta(n)ageettfaqt taaaaacaaa(n)acaaactcc ataaaaattg(n)gtatatataa cittecceyyg(n)ayyayyyaay tateitytta(n)teitlaytye teitlaytye(n)antaaytaat titagtgena(n)taagtaatga aacatatatg(n)atatattatt Original+Context Position 52878 154872 21851 122340 70961

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Arcte-"Region: Similar to chone ocsled).xl Homo saplens chna, A1076826."
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/rpt_family "1.144"

complement (4017, 4204)
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Bunck, C., Barter, M., Cavares, S. P., Cherke, I., Charer, D.,

Carron, T. F., Carter, M., Cavares, S. P., Cherke, I., Charer, D.,

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Cathsia, A., Good, Garcia, M., Gord, J., Poster, P., Frantz, P.,

Gobrell, J.H., Suever, P., Edwards, C., Edwards, C., Bernitz, P.,

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Sabmitted (26-SUP-2000) Haman Genome Sequencing Senter, Department
of Molecular and Bundan Senetics, Baylor College of Medicine, one
Physical Paras, Bracker, IX 77032, RSA
5 (bases 1 to 24410)
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Chemistry: Dye-forminator Big Dye: 968 of reads
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* rose at N. but the exact sizes of the asps are unknown.
* This record will be updated with the finished sequence.
* as soon as it is available and the accession number will
Wayn, Wuyr, Wayr.F., Zhond., Zorrilla,S., Nelson,D.,
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Drafting Center Code: BCM
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Project Information
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AE001356 13859 bp DNA Linear INV 16-APK-2002 Plasmodium falciparum chromosome 2, section 3 of 73 of the complete
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3 (adarder, M.L., Tettelin, H., Carucci, D. I., Cummings, I. M., Aravind, I. Kounni, E.V., Shallom, S., Mason, I., Yu, K., Fulii, C., Poerson, J. Shen, A., Ing, J., Aston, C., Lal, Z., Schwartz, D.C., Pertea, M., Salzberg, S., Zhou, L., Sutton, G.G., Clayton, R., Wilte, O., Smith, H.O., Fraser, C.M., Adams, M.D., Vorter, I. and Hoffman, S. Chromosome 2 sequence of the human malaria parasite Plasmodium
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      Submitted (02-NeW-1998) The Institute for Genomic Research, 9712 Medical Center Drive Poskvilla, MP 29814, 98A.
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Significal (21-Ad5-1682) Whitehead Institute, MIT Center for Geneme Fightive (21-Ad5-1682) Whitehead Institute, MIT Center for Geneme Research, 320 Charles Street, Cambridge, MA 02141, USA
TH ALL 1202 Unit, sequence retain replaced qi:17060668.
All repeats were identified using RepeatMasker:
Smit. A.E.A. & Green, P. (1996-1997)
http://rr.common.weilini.com/Propresser:
Genome Center
Tenter for Genome Research
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (bases 1 to 1664.44)
Rirech R., Nashaum, C., Lander, E., Ali, A., Allen, N., Anderson, S.,
Rarda, N., Sastier, V., Blaam, T., Bedaslaskiy, L., Boshhaatter R.,
Camarata, J., Chang, J., Chazaro, B., Choepel, Y., Collymore, A.,
Tayk, A., Carker, E., Potracial and R., Pevarri, L., Danaru, S., Todac, S.,
Paro, S., Rorreira, P., Pitzerald, M., Gago, D., Chingan, L.,
Cardyna, S., Gord, S., Graham, L., Grand Pierre, N., Hages, R.,
Horrou, L., Hulmo, M., Lifey, L., Johnson, R., Jones, C., Kanat, A.,
Estatas, A., Eris, C., Landers, F., Levier, E., Lichicial Disk., L.
Liu, C., MacLean, C., Macdonald, P., Major, J., Maithews, C.,
Liu, C., MacLean, C., Macdonald, P., Major, J., Maithews, C.,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Rosearch, 320 charles Street, Cambridge, MA U2141, USA
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Assembly program: Physi; yersion 0.960741
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Web Site: http://www.scq.wi.mit.edu
Contact: sequence_submissions*qenome.wi.mit.edu
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Insert size: 164934; sum-of-contigs
Quality coverage: 7.4 in Q26 bases; agarose-1p
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as soon as it is available and the accession number will be preserved.
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96596 96795: gap of 100 bp

96596 1740a; would got 2013 bp in length

17509 12668: gap of 100 bp

17609 138536; would got 20528 bp in length

138537 138638: gap of 100 bp

138637 16269: could got 20538 bp in length

* 162270 162369: could got 20538 bp in length

162370 166434: conld got 4065 bp in length.
                                                     2549 2648: contig of 2548 bp in tength 2549 2648: qap of 100 bp p 2549 3949: contig of 1301 bp in length 3950 4049: qap of 100 bp p 100 bp 5212 5220: acut of 100 bp 100 bp 100 bp 5212 5220: acut of 100 bp 
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/db_xret="taxxn:10090"
/db_xret="taxxn:10090"
/circum="taxxn:47.zblz"
/circum=1.1b="Rec1-25 Female Mouse BAC"
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4069. .44496
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/note="assembly_fragment"
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[17009. | 180536
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128637. | 162269
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74585. .81193
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/note="assembly_fragment
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All Direct Submission on Direct Submission of the overlapping clone name. Rate that the variation amountation and submission only a semi-procession of the overlapping clone name. Rate that the variation amountation of the overlapping clone, as we submit sequences with this sequence was finished as reflects as we submit sequences with this sequence was finished as reflects as submits or or comparing the submission of the contract of the Submission of Submission only a sequence of their double-stranded or sequenced with an affectation of the submission of the teature table with their source databases: Em., EMBLE Submission of the submission of th
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Mammalia: Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 125447)
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Fred, No. 0.14;
9; Mismatches 177; Endels z.
clone_cnd:17
vector_side:right"
54965 a 30429 c 29080 a 50459 t 1500 others
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AL627071.16 GI:21211914
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Matches 174: Conservative
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Smit, A.F.A. & Green, P. (1996-1997)

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S. Birrows, M. Mushanmari, Landers, Abrahamill, A. Len, M. Andrews, M. Littern, L. Mushanmari, Landers, S. Laria, K.; ...
Anderson, S. Barna, R., Bartelan, V., Beda, F., Stiakla, K.; ...
Roukhdalter, B., Broom, A., Burkett, C., Campoplano, A., Castle, A., Choke, P., Choxpel, Y., Colandelo, M., Collins, S., Collymore, A., Cooke, P., Dewark, M., Pewark, M., March, D., Galadan, J., Candrey, S., Goode, S., Gootte, M., Graham, L., Gade, D., Galadan, J., Candrey, S., Ghole, S., Gootte, M., Graham, L., Gade, D., Galadan, J., Candrey, S., Ghole, S., Gootte, M., Graham, L., Grand Pierre, N., Hagos, B., Hodford, A., Horton, L., Lamarares, R., Landers, L., Lephockky, J., Levine, R., Lieu, G., Liu, G., Marchand, P., Marquis, L., McCarth, M., Kanna, F., Mckin, F., McKrun, R., Morraw, J., Marphy, E., Nayler, J., McChan, C., McChan, C., Chan, C., Marchall, M., Coliner, C., McChan, C., Chan, Chan, C
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Group. Further information can be found at http://www.nip.i.p.c.b.//ci.c.
Phttp://www.nip.i.p.c.b.//ci.c.
Phttp://www.nip.i.p.c.b.//ci.c.b./committeelibrary.RPCI-11.2 commitmeted by the group of Pieter de Jona, For Inther details see http://www.nip.c.b./ci.c.b./committeelibrary.c.
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All repeats were identified using RepeatMasker:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 94527 GECACTCATAAAGAAATAAAAGAGATTTGEGATTAACAAGAGGGGATGTGAGAGTT 94586
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens clone RP11 753F2, Low-PASS SEQUENCE SAMELING. ME
ACOM 1988
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1 (bases 1-to-55379)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        [11.13] Score 55.6; LH 9; Laugh 125447;
57.5%; Pred. No. e.17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    322 IVAATATTOTGAAGGAAAATGCTTCTGAATCTAGAATTGAAACAATAAAAAA 375
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Homo sapiens, clone RP11-754Fz
Unpublished
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Pletre, N., Fisani, C., Follara, V., Raymond, C
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3: Mismatches
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Souqner,C., Spencor,B
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                                                                                                                                                                                                                                                      VECTOR: pBACe3.6.
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AC083988
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                                                                                                                                                                                                                                             * and the order in which they appear is completely arbitrary. Low pass sequence sampling is useful for * identitying clones that may be gene-rich and allows
                                                                                                                                                                                     * Note: this record contains 70 individual
* sequencing reads that have not been assembled into
* configs. Runs of N are used to separate the reads
                                                                                                                                                                                                                                                                                                * Overlap relationships among clones to be deduced. * However, it should not be assumed that this clone * will be sequenced to completion. In the event that
                                                                                           Contact: sequence_submissions*qenome.wi.mit.edu
                                                                                                                                                                                                                                                                                                                                                          the record is updated, the accession number will
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4688; gap of 100 bp
5374; contiq of 686 bp in length
                                                                                                                                                                                                                                                                                                                                                                                               684: contiq of 684 bp in length
                                                                                                                                                                                                                                                                                                                                                                                                                                 1409: contiq of 626 bp in length
                                                                                                                                                                                                                                                                                                                                                                                                                                                of 100 bp
contig of 706 bp in length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3034: contiq of 719 bp in length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3836: contiq of 702 bp in length
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4588: contig of 652 bp in length
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10815: contig of 628 bp in length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               of 100 bp
ontig of 635 bp in length
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           contiq of 680 bp in length
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ontiq of 688 bp in length
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           16252; contiq of 685 kp in length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          oof 100 bp
contig of 707 bp in length
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                                                    Souter code: WIBE
Web site: http://www-seq.wi.mit.edu
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13130: cont
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contig of 706 bp in length

20266:

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38667; qap of 100 bp 10
20267 20366: gap of 100 bp
20367 21057, contig of 691 bp in length
21058 21157; gap of 100 bp
21158 21622; contig of 695 bp in length
21853 21952, gap of 100 bp
                                                                                                                                             53 21925; qap of 3 100 bp 11 1619 up 13 22691; contigo uf 759 bp in length 92 22791; qap of 100 bp in length 64 2365; qap of 100 bp in length 64 2465; qap of 100 bp in length 63 2465; qap of 100 bp in length 64 2500; contigo of 699 bp in length 650 2465; qap of 100 bp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       100 bp. ... tength
343. 34p of 692 bp in length
343. 34p of 100 bp
3300. contig of 667 bp in length
110: qap of 100 bp
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29856: contig of 769 bp in length
55: gap of 100 bp.
30655. contig of 699 bp in length
                                                                                                                                                                                                                                                                                                                                                                             of 100 bp
contig of 688 bp in length
                                                                                                                                                                                                                                                                                                                                                                                                                            25151 25867; contig of 717 bp in length
25868 25967; contig of 717 bp in length
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contig of 690 bp in length
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contig of 679 bp in length
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440. gap of 100 bp
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contig of 662 bp in length
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30655. ...
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Linear rAT (6-FEB 2(9)2
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30 km | 1 | 1 | 11 | 11 | 11 | 11 | 1 | 11 | 11 | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1
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47.8%; Pred. No. 1.1;
List 0: Kismarches 166; Indels 9; Gaps
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Discrets of diseases associated with cell signalling
Pricell Re 02003867 A 370 la JAN 2002;
198733; contid of 701 kp in lenath, 50550; cap of 100 kp 50550; cap of 217 kp in lenath, 50550; cap of 100 kp 5185; confid of 735 kp in lenath, 1485; cap of 100 kp 7297; catiq of 712 kp in lenath, 5297; catiq of 595 kp in lenath, 5297; cap of 100 kp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         54881 54674; cont.iq of 694 bp in length 54575 54674; aap of 100 bp 54475 55779; cont.iq of 705 bp in length 54475 55779; cont.iq of 705 bp in length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5.7281 5.3880: contig of 688 bp in length, 5.8881 5.4574: contig of 688 bp in length, 5.881 5.4574: contin continuity
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Sequence 470 from Paton' W90202807.
AX348912
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S. Mirzen, R., Linton, L., Misbaug, C., Larder, E., Altaham, H., A. Len, M.,
Anderson, S., Baldwin, T., Parin, M., Brekel, C., Peda, F.,
Roquslavkiy, L., Boukhaalter, Brown, A., Burket, A., Castle, A.,
Choepel, Y., Colanardo, M., Collins, S., Collymore, A., Croke, P.,
Lovarellano, K., Bewan, K., Lowan, R., Collymore, A., Croke, P.,
Ferreira, P., Fitzhaudh, W., Perrest, C., Gaqe, D., Galaqan, J.,
Ferreira, P., Fitzhaudh, W., Perrest, C., Gaqe, D., Galaqan, J.,
Howland, J. C., Haros, R., Goros, C., Fund, E., Ettlas, M., Perin, J.,
Mardonald, D., Margis, R., Perley, E., Perley, E., Herley, M., McKerhan, K.,
McCohnald, D., Margis, R., Melwan, F., Morrow, J., Maylor, J.,
McCharle, R., McChin, J., Melwan, F., Morrow, J., Maylor, J.,
Morrman, C.H., Connor, L., Channell, P., oligan, J. M., Petreson, F.,
Norman, C.H., Connor, L., Channell, P., oligan, J. M., Petreson, F.,
Mardonald, C.H., Connor, L., Channell, P., oligan, J. M., Melwan, F.,
Morrman, C.H., All, M., Maylor, L.,
Martin, C.H., M., McChan, M., McChan, M., Maylor, J.,
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Maylor, L., oligan, J., oligan, J., M., McChan, R., Rothman, P.,
Maylor, M., Maylor, L., oligan, M., McChan, R., Rothman, P.,
Maylor, M., Maylor, L., oligan, M., oligan, M., M., oligan, M., oliga
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Homo sapiens, clone RP11 590E14, complete sequence.
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Rirren, B., Linton, L., Nusbaum, C. and Lander, E. Bono, Sapiens, clone RP11-590E14
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Submitted (03-JUL-2001) WhiteHead Institute/MII Center for Genome Research, 420 Charles Street, Cabridates (A 02141, 08A) "List in July 420 Charles Street, Carbinated at:114210618.
All repeats were identified using RepeatMasker:
                                                                                                                                                                                      Center: Whitehead Institute/ MIT Center for Genome Research
            Viellk., Vo.A., Wilson,B., Wu.X., Wyman,D., Yo.W.J., Yound.S.,
Edmon,J., Sembek,L., Simmer,A. and Sody,M.
Direct Submission
Pragic, N., Triqillo, J., Vassiliov, H.
                                                                                                                                  Sait, A.F.A. & Green, P. (1996-1997)
http://fig.nom.or.washirger.ed.in.Ergen.Masker.html
                                                                                                                                                                                                    Center code: WIBB
W.b. Site, http://www.seq.wi.mit.edu
Contact: sequence_submissions*qenome.wi.mit.edu
                                                                                                                                                                                                                                                                                                                                                                                                          /clone_lib="RPCI_11 Human_Male_BAC"
1562. .1583
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complement(13583, 15460)
/rpd_family="LIMEC"
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2861. .2929
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v denna hasása millangatári HWH JAPPHTETH GYTETH TYSTETHER SERM
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/product="adenosine triphosphatase subunit 8"
/protein_id=AAA9543.1"
/dt_cc:"::11217560"
     /jovatost "vytochrome vaidase sobinit 2"
/|rotein_id "AAA/3512.2"
/db_xref="C1:7345554"
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Pritis don (pres2820), (4925, autAsp)
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/product="cytochrone oxidase subunit s"
/profein_id="MAAA9545.2"
/dt_xrof="ng.?v8565"
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/p: Pot "NATH dehydr series subunit 4"
/protein_id "AAA93546.1"
/Alt_ret="G1:471968"
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Zantionidan-(pos-593), .5933,aa:Ard)
5966, .6031
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Ziede "sodou recognized: 50A: putative"
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Zaote "patative"
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PEVYNŲ PYLICYMOTYTE TO TOTOS SOCIASTISPADŲ BLIDALIAI
18VO RETERIYLE VYSTOVY VĄPINSMICKAI MARISTINILIAI LAMOMA.
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Austreadon (pos 1287. [1259, and tp)
Complement (1295. [1858]
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/produce = "FPNA 129"
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//note="chomically treated genomic DNA (Homo sapiens)"
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Query Match 10.34, Score 51.4; DB 6; Length 38342; Best Local Similarity 47.4%; Pred. No. 1.3;

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entire insert of this clone. Overlapping regions of clones are entry asquenced and submitted outer, so the sequence for the remainder of the insert may be found in the record for the adjacent clones, everlapping clones are noted at the beginning and end of the
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Genes and Region of sequence similarity are identified by BLAST.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                       Morto, E., Armagan, A.D., Beperk, J., Hunar, C., Chen, Z., Dinna, Y., Ondan, S., Durbin, J., Formula, J., Garcia, C., Gorell, J.H., Garcia, C., Gorell, J.H., Garcia, C., Gorell, J.H., Kneitz, S., Kondejewski, H., Lan, S., Lea, F., Lec, E., Lichtarge, D., Lia, W., Adam, S., Loa, J., Marrandel, J., Parrish, H.J., China, H., Marrandel, J., Marrandel, J., Shen, H., China, C., Simea, H., Zhou, X., Kucher, Japani, R., Nerley, K.C., Manua, A.M., Tanq, R., Tu, W., Zhou, K., Kucher, Japani, R., Neilson, D., and Gibbs, k.A.
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Homo sugiens logis 40,7 70 BAQ BOSTOL 46829 (Kusaest Purk Cunser
Lostifute Homon BAC Library) complete sequence.
ACOORO14
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Maylor Plaza, Houston, IX 77030, USA
5. (bases 1 to 1679.9)
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l (bases 1-to-167939)
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Lirect Submission
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standard of double strand coverage with a minimum of 2 chars and 2 reads with no ambiguities of 2 chemistries with a minimum of 2 chomes and 3 reads with no ambiguities. If the sequence quality for

linear PRI 07 MAR 2002

SNE

167939 hp

AC0008014

ACDU8014/c

110,318

RESULT 2

SECUENCING READ COVERAGE: Sequencing is completed to a minimum

identical matches are annotated as similar.

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a region does not meet this standard, it will be indicated in the annotation as Low Coverage.
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misc\_testure

QUALITY OF INDIVIDUAL BASES:This sequence meets stringent quality standards - estimated error rate less than 1 per 10,000 bases. Reports of lowest quality individual bases and measures of base quality are listed below. Description of the metrics can be found at 85, http://gr.f.s.tmc.edu.kuwg.g.alf.; 185.getsbun ancorrer. html.

## QUALSTAT-REPORT ------

| 167939<br>167939<br>167321<br>673216-05<br>0.0231645<br>0  | Edited-Context<br>total data (a) agactitact<br>total loads (a) accasactor<br>total loads (a) total coast<br>total accasa (a) total coast<br>total coast (a) total coast<br>absaction (a) total caton<br>accast at 9 (1) total total<br>total coast (b) total action<br>total coast (a) agagggast<br>total coast (a) adail as total<br>total coast (a) adail as total<br>total coast (a) adail as total<br>total coast (a) adail as to<br>total coast (a) adail as total<br>accast (a) adail as total |
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### Distribution of Quality < 40 Bases --7001 3001 # bases

3.0 15 20 25 Phrap Value Range 10

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/function="clone overlap"
complement(150, .339)
/rpt_family="MERSA"
                                                  /organism="Homo sapiens"
/db_xref="taxon:9606"
/chromosome="12"
                                                                                                          "RPCILI-69EZU"
  1.01 qxfo.
Location/Qualifiers
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Version: 1.01
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/rpt_family="THEIC"
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complement(4057, .4204)
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/rpt_family "Alusx"
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Score 490: DB 9: Length 147939; Pred. No. 7.5e-86; 0: Mismatches 6: Indeis 1: Gaps 97.88; 188.55 Best Local Similarity 99.8° Matches 501; Conservative Query Match

\*\* 121 GTANDAN SETT AND SETATORNEL FOR A CARACA CONTRACTOR SETATOR SET

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Macroy, P.M., Adams, C., Adic-eduola, R., Ahi osman, F.R., Ahlen, C., Alsbrocks, S. I. of 244700)
Macroy, P.M., Adams, C., Adic-eduola, R., Ahi osman, F.R., Ahlen, C., Alsbrocks, S. P., Amarituan, H.C., Aro, L.P., Appel, M., Barka, P., Sprick, A., Barbarda, J., Renton, J., Brigon, M., Brack, E., Brack, M., Bryant, M.P., Rahbar, S., Brigon, M., Brack, E., Brack, M., Bryant, M.P., Rahbar, C., Brack, J., Brack, S., Brigon, M., Brack, E., Brack, M., Bryant, M.P., Carron, T.F., Carron, M., Chen, R., Chen, Z., Chowdhry, L., Christopentos, C., Chen, R., Chen, Z., Chowdhry, L., Christopentos, C., Chen, R., Chen, Z., Chowdhry, L., Christopentos, C., David, M., Delaney, K.R., Delgado, O., Benn, A.L., Dian, Y., Dinh, H.H., Doulhwaite, R., Delgado, O., Benn, A.L., Dian, Y., Dinh, H.H., Doulhwaite, R., Dareda, A., Cannor, T., Carron, C., Escotto, M., Falls, T., Chernaulto, D., Fland, M., Ford, J., Poster, P., Frantz, P., Gorrell, J.H., Gueverta, W., Chernaulto, D., Fland, M., Barlak, F., Gall, R., Harris, K., Ha
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River, M., Peljas, A., Peljaskan, J., Pelfe, M., Enfr., S., Savery, C., Scherer, S., Scott, G., Shen, H., Shenshtari, N., Sisson, J., Sodergren, E., Sonaise, T., Shenskan, M., Strabey, H., Stroe, H., Santon, A., Sevick, A., Shenska, M., Sevick, A., Savick, S., Warten, R., Washinston, S., Warten, R., Washinston, S., Warten, R., Washinston, S., Warten, Washinston, S., Warten, Warten, S., Wa
VY 2.1 CAMANA TOTA MED MANAGRATIC PARTICIA DE NAMACO STALOGRAPIA ROBERTA POR 151770 GAMANAGOGIGALGCATAMATATTACAGITGA ANAMATATATA PERMANANTA 151713.
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Bares, A. Baston, B. Bessy, I., Perez, I., P. Berkers, R., Primas, E., Patter, Julius, R., Ren, E., et jas, A., Penjebekan, I., Perite, M., Penjes, S., Saver, C.,
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Submitted (26-SEP-2000) Human Genome Sequencing Center, Department of Modellar and Minda Denotics, Baylor College of Modicine, see Baylor Flace, Humston, 1X 77000, USA (Gases 1 to 244100)
                                                                                                                                                                                                                                                2002) Human Genome Sequencing Center, Leparthear
                                                                                                                                                                                                                                            Sobusited (2) ARR 2002) Human Genetics, Sequencing Center, Aspertiment of Molecular and Human Genetics, Baylor College of Medicine, one Baylor Plaza, Houston, TX 77030, USA
The Arg 19, 2002 this sequence rerains replaced alsologists.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Assembly program: Pirap, version 0.99929
Consensus quality: 258784 bases at least 040
Consensus quality: 26623 bases at least 040
Consensus quality: 26623 bases at least 040
Estimated baset, size: 216760; sum of contigs estimation guality coverage: 4x in Q20 bases, sum-of-contigs estimation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      * arbitrary. Gaps between the contigs are represented as * tons of N, but the exact sizes of the apps are unknown.
* This record will be updated with the finished sequence * as soon as it is available and the accession number will
Wu,C., Wu,Y., Wu,Y.F., Zhou,J., Zorrilla,S., Nelson,D.,
Weinelock,J. and Gilb,S.R.
Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Chemistry: Dyo-primer Bodipy: 4% of reads
Chemistry: Dyo-Lerminator Big Dye: 96% of reads
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             39208; contig of 2808 bp in length
30308; gap of unknown length
44190; contig of 214792 bp in length.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     coatly of 4151 by in length gap of unknown length contig of 4156 by in length
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gap of unknown length
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of 2516 bp in length
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brailing Center Code: BCM
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gap of unknown length
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Center code: BCM
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                                                                                                 Length 244100;
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Diagnosis of diseases associated with dna replication
Patent: WO 0177377-A 21 18-OCT-2001;
                                                                                              Scote 490; EB 2; Length 2441
Pred. No. 6.9e-86;
0; Mismatches 0; Indels
/organism-"Homo sapiens"
/db_xret".taxon:9606"
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/db_xrot="taxon-32630"
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Guery Match 10.5%, Store 52.6; in 6; Length 11049; Best Local Similarity 47.4%; Pred. No. 0.61;

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Mammalio, Puthorio, Primeros, Patagribini, Howisigno, Homo
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47.4%; Pred. No. 0.61;
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The true left end of clone RPII-165019 is at 1 in this sequence. The true left end of clone RPII-352F21 is at 86272 in this sequence. The true right end of clone RYII 2305 is at 38592 in this
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Fig. 1988 Among the open of the perfect of the configuration form part of bacterial clone configs of business chromosome 9, constructed by the Sanger Centre Chromosome 9 Mapping
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        this sequence was finished as follows unless otherwise noted: all regions were either double strands of sequenced with an alternate chamistry or covered by high quality data (i.e., phred quality (0); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by at reast
                                                                                                                                                               on Public 5, 2001 this sequence service replaced 41.12657136. But his sequence assembly data is compared from everlapping clones. Where districtness are found these are annotated as variations together with a note of the everlapping clone name. Note that the variation annotation may not be found in the sequence submission.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The following abbreviations are used to associate primary a cession
numbers advocate the feature table with their source databases:
Enc., EMBL: Sw., SWISSENCT: Tr., TREMBL: Wp., WORNDEP: Information
on the WORNDEP database can be found at
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Cambridgeshier, 7810-1887, UK. Frmail enquities: Hingra-
bumqueryssander.ac.uk Clone requests: clonerequest sander.ac.uk
%, 785-5, 2001 this sequence.
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complement(5546, .6362)
/acte "match, .383, Em.Ay77729;"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /note-"LIPA7 repeat: matches 5927. .6145 of consensus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /note="LIMC3 repeat: matches 7100, .7740 of consensus"
14443, .14895
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                344. .825
/nate="LIN4 repeat; matches 4222. .4701 of conscissis"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                837, 2115
//nofe-"ilM4 repeat: matches 3033, .4303 of constusus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ziote-"LiMix repeat; matriws 276. .1400 at consensus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Abote "51M4 repeat, matches 2739, .3033 of consensus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          znote-"MLTIAl reporat, matches 1. . 165 of consensus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Amote-"SVA repeat: matches 1. .127 of consensus" 12924. .14330
Amote-"LIRRE repeat: matches 87. .524 of consensus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 [1245, .11270]
/noite "13 copies 2 mer au 949 conserved"
11213, .11843
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20 magics 2 mor 1º 05% resserved"
.14435
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /db_xret "taxon:9606"
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1. 86371
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2,40. "20 etc."
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30.296 38223 2544U. repeat\_region repeat\_testion repeat\_region repeat\_region representation repeat\_region misc\_feature repeat\_region repeat\_region repeat\_region repeat\_region repeat\_region repeat\_region repeat\_region misc\_feature

700-00-1004 repeat: matches 5290. .5733 of consensus" 18952. .20752 /note="Cheshire repeat: matches 589. .2419 of consensus" 16308. 1643. /note\*\*Liber repeat: matches 5027. 0252 of consensus\*\* 17308. 17884 15031. .15281 ./morte-"Chariles topost: matches 1. .261 of consensus" 15299, .15562 ./note-"1,8889 repeat: matches 5:27. .5:282 of consensus" Ziu81. .Zi338 /note-"flMC4 repeat: matches 6224. .6516 of consensus" 32932. .ssllb /note="L2 repeat: matches 1713. .1840 of consensus" 33362. .33928 /note="LIMET repeat: matches 5435. .6007 of consensus" 34583, .34687 Zhorea-"IJMET ropeat: matches 5007, .6117 of consensus" 35032, .35271 1020 of censonsus" 29440. .29702 /note="MillE repeat: matches 249. .564 of consensus" 35032, .35271 /note="LTR23 repeat, matches 204, .437 of consonsus" . ..resonsus"
...mem="Alujo repeat: matches 122. .288 of consensus"
complement(38054. .38498)
//note="match: gss: pm.zerr= 312 of consensus" Znote="MPR44A repeat matches 1 .320 of conscisus" "[There repeats matches 7. .195 of Consensus" Zhoto-"AluJo repeat; metches 25. 131 of consensus" complement(38387, 38592) a8552. Annie-ment(38387, 5859) /note="MLTID repeat: matches 1. .501 of consensus" 15031. .15281 32098. .32144 70016="MIP Tryphat: matches 216. .251 of consensus" 32145. .32447 /note: "AiuSx Tepeat: matches 3. .364 of consensus" 32448. .32504 4579. Jabedo /moto-"(TPP04 repeat matches 1 Officed consonans" 289 of consensus" "Ses of consensus" /hote:"40 copies 2 mer ta 65% conserved" 30487. 30702 /hote="match: STS: Em:130489" Zhote "21 copies 2 mer ay 76% cunsurved" 30483 - 30562 24928. . . 25255 /notes="MFR44A repeat" matches 1. 35611. .35699 Zmote-"LTR28 repeat: matches 502 26024 | 26331 Znote≕"AluJb repeat: matches 3 35109. 35752 /note="match: GSS: Fm·AQ424993" 387. .38592) GSS: Pm-AQ013725" 31708. .siyu: Zhote="MIP repeat: matches 29. 32098. .32144 30336. .30485 /note="match: STS: Em·130489" 30439 -36480

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Andream Timpor (Colem) repeat: matches ] Bud of consequence 44993. .45560
Anote "Timper3 (Golem) repeat: matches 2390, .2960 of
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Anote-"harten GSS: Em: H32653"

Anote-"harten GSS: Em: H32653"

Anote-"LIMAG repeat: matches 5813. .5981 of conscious"

A 6904. .46444

Anote-"Li repeat: matches 4157 4144 of conscious"

A 7269. .47249

A 7720. .48791

A 7702. .48091

A 7702. .48091

A 7702. .48091

A 8115. .48174

A 8115. .48174

A 8115. .48174
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Professor Property Halches 2644. Look of consensors
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 315 ITTITONNOACAAGGCTTGTAGATTTCACAAAAAI-GTTTCACAAAAGGCTAAAAAIV 324
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                                                                       .191 of chaseusus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /note-"Alujo repeat: matches 1. .172 of ronsensus"
.implement(447); .1355)
/note-"match: STS: Em:G05396"
44894, .44982
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Mismatches 21;, Indels
                                                                              mat. hés 82.
       40337 .40441
/outh "MLLL Topcat: matches B2.
complement(42468. 42937)
/hote-march: GSS- En-AQ388839"
cvvplement(42490. 12948)
                                                                                                                                                                                                                                                                                                                                               / 42957, 43374
/ 100 e. "match, CSS; Em:AC208800;"
/ complement(43194, 44613)
/ match: GSS; Em:AQ468967
/ complement(43296, 43697)
/ notal: match: nee: Em:Ag221289;"
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Matches 720: Cameryation
40337.
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the RPCI-II humain BAC library was made from the blood of one male denotes as described by oscendance. Wounder: Wildon B., Prenaton. E., deported. W., Cataneses, J., and de Jond, P. S. (1998) An improved approach for construction of bacterial artificial chromosome libraries. Genomics 51:18. The Color may be obtained either from the Research Generics. In: (http://www.research.generics.in: (http://www.research.generics.in: data Koswell Park Cancer Institute

SOURCE INFORMATION:

The clone sequenced to the left is RPII 485011, the clone sequenced to the right is RPII-419NI2. Actual start of this clone is at base position I of RPII-472P4; actual end is at base position 17847B of

NEIGHBORING SECUENCE INFORMATION:

RP11-472F4.

//3-prpar mod buffalo edu)

VECTOR

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FR: 09-14N 2002
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Submitted (15 MAR 2000) Geneme Septementa Center, Washington
University Selson of Mullilac, 1444 Potest Park Parkway, St. Louis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Submitted (09 LAN 2012) Papartament of Arathes, Mashheston
University, 4444 Perest Park Assesses Yu. Godis, Misseuri 66108, 88A
19 Per 20, 2001 Uliz Anglands, Auston England Fil5528932.
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University Sebsel of Mediciae, 1111 Forest Park Parkway, St. Louis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Enkaryota, Metazoa, Chordata, Chaniata, Vertebrata, Bureleostomi, Mamerlin Butheria, Printies, Christiai, Hymicidae, Hymo. L. (1982).
Fulstendis, and Materstensk.
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The sequence of Homo sapiens BA righe RFII-472F4
                                                        Db 30433 IGCCGCFAAAAGAISAATATATTA FILLI 111 1 8096
Toward a complete human genome sequence
Genome Res. 8 (11), 1097-1108 (1996)
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3 (bases 1 to 178478)
Waterston, R.H.
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AC025821. Polymorphisms have been identified between AC023245 (H_NHe485611), AC019360 (H_NHO319412), and AC025821 (H_NH0472E04).
Fuls II: WE ACG2/216 and ACG19300 was used to limith this clone.
AC02/821, Polymerobisms have been by
                                                                                       /ordanism-"Romo sapiens"
/db_rrof-"taxen-9606"
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10695. .10748
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2587, .12622
rpt_family."At_rich"
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643. .1675
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3657. .3679
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362. .5293
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7543. .7572
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0252. .10286
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1648. .1953
                                                                                                                                                                                                                                                                                                                                                             /rpt_tamily="AT_rich"
3424. .4457
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                                                                                                                                                                      /clone_lib-"RPC1-11"
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                                                            Localion/Qualifiers
                                                                                                                                                     Zelone "RP11-472F4"
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9396. .9522
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /rpt_tamily-"(TA)n"
                                                                                                                                                                                                                                                                                             /rpt_tamily="Alu"
2725. .2848
/rpt_family="L1"
3091. .3130
                                                                                                                                                                                                    /rpt_family:"(T)n"
1007, .1033
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10019, 10056
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0493. .10522
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12510. .12533
                                                                                                                         /chromosome "3"
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13949, 14
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Mapping intormation for this clone was presided by Dr. Lewin D. Welforson, Department of Genetics. Weshington university, St. Lewis Mo. For additional information about the map position of this sequence with  $\Gamma_{\rm eff}$  the  $\kappa_{\rm eff}$  and  $\kappa_{\rm eff}$  the  $\kappa_{\rm eff}$ 

restriction didest. MAFFINE INFEMATION.

MOTIGE: This sequence may not represent the entire insert of this clone. If may be shorter became we only separate averanging once, or longer because we provide a small evertap

Center: Washington University Geneme Sequencing Center

41, 12 + 1, 11 × 11 44,

Contact: Sapiens watson.wostl.edu ---- Summary Statistles Center project name: H\_NH0472F94

Center code: WUGSC

all regions were double stranded, sequenced with an affernate chemistry, or covered by high quality data (i.e., phred quality of 0); an attempt was made to resolve all sequencing problems, such as compressions and repeats, all regions were covered by sequence from more than one subclone; and the presembly was centimed by

This sequence was finished as follows unless otherwise noted:

between neighboring data submissions.

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28111. .28219
/rpt_family="L1"
28279. .28331
/rpt_family="AT_rich"
/zbf. .28934
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25340. .25453
           /rpt_tamily="Li"
14424, 14446
//rpt_family="Al_rich"
14761, 14780
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15858. .16070
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16132. .16413
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/rpt_family="AT_rich"
24800, .25255
/rpt_family="L1"
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30995. .......
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22540. .2272
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26216. .26957
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21519. .21745
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18228. .18354
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19568. .20131
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33235. .33305
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                                                                                                                                              /rpt_family="Alu"
17001. .17265
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19376. .19524
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23475, ,23509
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25599. .25659
                                                                                           "L2"
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27143. .278GR
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                                                                                       //rpt_family "L
16092. .16121
.14429
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28048. .28103
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Score 51.6; DB 9; Length 178378; Pred. No. 0.51; /rpt\_tamily+"(FFFFA)n" 10.3%; 51.8%; Best Local Similarity Matches 117; Cosserv Query Match

NOTICE: This expresse may not represent the entito insert of this conce. In may be shorter because we only sequence everlapping clone sections once, or longer because we provide a small overlap between neighboring data submissions.

this sequence was finished as rollows unless otherwise noted: all reduces were double stranded, sequenced with an attenuate chemistry, or covered by high quality data (i.e., phred quality ss 30); at attempt was made to resolve all sequencia problems, such as compressions and repeats; all regions were covered by sequence from more than one subclone: and the assembly was continued by restriction didest.

95 TTANAGIGCCLGTIAGCAAAAIICACTAGAAGGAIGTAGGACACAIAAAGITHICAT 154

0, Gaps

Trideits

Mismatches 109,

0.5

Conservative

155 GTAAAATTTGGGGTGGALLILAACIGAALCETTGGCCAIGTGTGAACAAAFTAACG 214

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Direct Submission
Submitted (O)-MAR-2002) Department of Genetics, Washington
University, 4444 Parest Park Avenac, St. Looks, Missour) 63108, USA
Oniversity, 2007 + Mis Sequence version replaced ji.15778758.
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Direct Schmission
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University (23 GCF-2001) Genome Sequencing Center, Washington
University Schmel of McRistice, 4444 Permit Fack Larkway, St. Louis,
MO 63108, USA
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Submitted (10-SEP-2001) Genome Sequencing Center, Washington
University General of McHerba, 1141 Perest 1913 Billian, St. Louis.
                                            Homo sapiens.
Homo sapiens.
Enkaryota, Metacoa; Chordata; Cramiata; Verrobrata; Enteleostomus; Enkaryota, Metacoa; Chordata; Cramiata; Verrobrata; Entheria; Primates; Catarrhini; Hominidae; Homo.
I (bases I to 191904)
Sulston.J.E. and Waterston.R.
Toward a complete human genome sequence
Genomic Res. K (11), 1097-1198 (1998)
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Cadronia, M. Kozlowicz, A. and Gresson, K.
The sequence of Homo Sapiens RAC clone RELL-419NLz
Unpublished (2001)
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Waterston, R.H.
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Waterston, R.
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Mapping information for this clone was provided by Dr. John G. Perbruson, Department of Schilds, Waddharton, Shirersity, 11. Louis MD. For additional information about the map position of this sequence, see http://orw.wow.ii.ob./sch. MAPPING INFORMATION:

SOURCE INFORMALION:

donor, as described by Osocdawa,K., Woon,P.Y., Zhao,B., Erruden,E., Tateno,M., Catanaga, J., spelide tong p.J. (1995) An improved approach for construction of barterial attiticial chromosome libraries, Genomics 51:1 8. He chare may be obtained either from Research Genetics, Inc. (http://www.rosqon.ecm) or Picter or Janq and coworkers at http://www.logica. The RPCI-11 human BAC library was made from the blood of one male VECTOR: PBACel.6

NEIGHBORING SEQUENCE INFORMATION:

The clone sequenced to the left is RPII-472F4. Actual start of this clone is at base position FORIT-49NI2, actual end is at base position PSDF of RPII-49NI2.

Ther overlap between RPLE 319812 and RCLE 5233 has been thinkled redundantly due to a significant discrepancy between these clones. RPLE-419812 contains RFS bases which were not found in the overlap with RP11-472F4.

The sequence of ACO19300 has been incorporated into AC093803.

FEATURES

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20739. .20774
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23504. .23524
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21090. .21116
/ipt_family="Af_rich"
21155. .21295
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99398. .25662
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29525, 3967
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20899. .20920
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18822. .19362
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22763. .2279
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BURATYCETS Alrechats, Apicomplexa, Hachospotida: Plasmodium, BURATYCETS Alrechats, Apicomplexa, Hachospotida: Plasmodium, BURATYCETS Alrechats, Apicomplexa, Hackotida: L.M. Arryind, L.M. Rochie, E.V., Shallom, S., Mascor, T., Yu, K., Fujii, C., Pederson, J., Shen, K., Jang, J., Aston, C., Lai, Z., Schwartz, D.C., Pertrea, M. Salzberg, S., Zhou, L., Sutten, G.C., Clayton, R., White, O., Salzberg, S., Zhou, L., Adams, M.D., Vriter, J.C., and Hoffman, S. Smith, H.O., Fraser, C.M., Adams, M.D., Vriter, J.C., and Hoffman, S. Chromosome Z. Acquerice of the human mainta patasite Plasmodium
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// Translation="MECRINVPFSKSLKFGHISVFIFGLLYGVINKLFTSDVNSCYSV
SNSITYERQLSSKDNLSNSLKQNGEPVVIGOFFSLPNGKSISISDLPTDEEQSIVNF
IDNITEGLEOVMIWNYMYIPHMKQYPVFVNDKDEDLELMYNDLLEFTERW
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NITGLVRKILEYLKSBNOTENNYSNOTHSSDDOBNORBINENDEN
NATGLVRKILESENIEKRYLHFMIKNIKNSVGDENORBINENDEN
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PTSELSEIKSNYYNLALKYNPESNI,GNAFALTKFRDINEAYQILSLDORRMNYNKYGI.
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Location/qualitiers
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* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    * consists of 7 contigs. The true order of the pieces * is not known and their order in this sequence record is
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Phydroldear Brosophilliage, Coroner, Carlos C.A., Gaedyne, J.D., 1987. Adam, M. P. C. Luker, S.E., Li, P.W., Broskins, R.A., Galle, P. J., Gaedyne, J.D., Scherer, S.E., Li, P.W., Broskins, R.A., Galle, P. J., Gaedyne, J.D., Gaedyne, J.D., Gaedyne, J.D., Gaedyne, J.D., Gaedyne, J.D., Gaedyne, J.D., Gaedyne, J.C., Galle, R.J., Champe, M., Breitter, R.D., Garle, R.J., Champe, R.J., Britter, R.D., Walker, S.Y., H., Blazel, R.G., Champe, M., Preditter, R.D., Walker, M., Garle, R.J., Champe, M., Preditter, R.D., Walker, S.J., Bellew, R.G., Barter, E.G., Barter, E.G., Barter, R.G., Galler, R., M., Gaster, R., Galler, R., M., Gaster, R., Galler, R., M., Gaster, R., Galler, R., Champer, M., Garley, R., Galler, R.,
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Show, R.C., Sider, Klamos, L., Standors, R.D., Sater, Klamos, L., Standors, M. S., Standy, R., Smith, T., Spier, E., Spradling, A.C., Standord, M., Strond, R., San, E., Byirskas, R., Ferton, C., Turner, B., Standord, M., Wang, K., Wang, K., Massariand, C.A., Weinstock, G.M., Weissenbach, J., Williams, S.M., Woodang, L., Rendolf, M., Weinstock, G.M., Weissenbach, J., Williams, S.M., Woodang, L., Rendolf, M., Weinstock, G.M., Weinston, G.M., Weins
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Db 196807 HTTATHTATHTATHTATATTAAATTTAAATTTAATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATHTATH
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                195 CATGLGTEAACAAATIAAGGITATGCITEAGCAAATGGGTGGGGTTGAAAAAGGGTTAA 254
                                                                                                                                                                                                                                                                                                                                                                                                            75 TTACAATTTAAGTATGTGTTTTAAAGTGCGTGTTAGCAAAAATTCACTAGAAGGATGTA) 134
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E., Nelson, D. E., Nelson, K.A., Nixon, K.,
Hisakeri, E.R., Faeleb, J.M., Palazzolo, M., Pittman, G.S., Pin. S.
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Neoptera: Endopteryquia; Diptora; Brachyesta: Miscomorpha;
Ephydrolidea; Prosophilidae; Diosophila.
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3. Calls

Score 50: BB 2; Length 145430; prod No. 1 1. Mismatcher 178, Indele

Pred. Mc.

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Matches 166, Susseination

Best Loral Similarity

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Adams.M.D. Celuiker,S.E., Gibbs.R.A., Nubra.G.M. and Venter,C.J.,
Direct Submission
Direct Submission
Submitted (21 MAP-1999) Celuia Secondos, 45 West Gude Drive,
Porkrille, MS, CSA
ON OCT 9, 2000 this sequence version replaced qi:7296751.
1. 129474
| L. 129474
| Author,C.A.A.L.Luce,
| J. 129474
Carcellois, Thomas, Chargellois, Thacker, another, Diemark. H., Charafellois, Theorems, M., Thomas, Chark., Smith, Broom, Cabbes P. A., Myersellow, Februal J. M., and Vahlellois.
The genome Sequence of Prosophila melanogaster
Schäne, 287 (Effil: Clarification)
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Mol. Biol. Evol. 14 (1), 42-48 (1992)
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Noegel, A.A.
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| AATSTAASSTACATTGAILLIIA/FHILIACAFGTGTAGTTTTCTTTCTTCACAGTCAA 420 HIJIIIIIIIIIIIII AATSTAASSTACATIGAILLIIAA/FHILIACAFGTGTAGTTTTCTTTCTTCACAGTCAA 220 AACSTAASSTACAILIGAILLITACTTTTTACAGTTTTCTTTCTTTCTCACAGTCAA 2848 AACAATTATATATATATAGGGGGGGGGAAAAAAAAAAAA | Horizon Sapicas 12913 62,772 560 kHC111-bbk20 (Roswell Park Cancer AC008014  Homo Sapicas 12913 62,772 560 kHC111-bbk20 (Roswell Park Cancer AC008014 5  HTC.  RECORDIA S GI:5815493  HTC.  HTC. | On Sep 1, 1999 this sequence version replaced gi:5668745.<br>INFORMATION: http://www.hgsc.bcm.tmc.edu/ or email<br>gc-help@bcm.tmc.edu |
|--|--|--|
| 2y 361<br>Db 2789<br>Qy 421<br>Db 2849<br>Qy 481<br>Db 2909  | A RED BURE BURE A CHE DE LA TOTAL A COMPANION A COMPAN | COMMENT  |

CLONE LENGTH: This sequence does not necessarily represent the entire insert of this clone. Overlapping regions of clones are only sequenced and submitted once, so the sequence for the remainder of the insert may be found in the record for the adjacent clones. Overlapping clones are noted at the boginning and end of the Features listing.

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SISS are identified using ePCR (Genome kes. 7:54, 55), searches of a head as the includes entries from dbSIS, 63A, and begang a for identified using negatives. (A. W. 10.3), cach, unpublished, lor Human and Mouse sequences.

(Nuc. Acids Res. 25:338-33402) similarity (repert) include by hiASI RSI and "DNA sequences. Genes demonstrate at least two exons. ESI and "DNA sequences formes demonstrate at least two exons continuity across the splice junctions. Sequences continuity across the splice junctions. Sequences that maintained sequences.
                                                                                                                                                                                                                                                                                                                   SECULNITING READ COMPRAGE: Sequenting is completed to a matrimum standard of double strand coverage with a minimum of z clones and 2 reads with no ambiguities of 2 chemistiles with a minimum of z clones and 4 reads with asy ambiguities. If the sequence quality for a region does not meet this standard, it will be indicated in the abnotation as Low Coverage.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GHALLTY OF INDIVIDUAL BASESTRIES SEQUENCE meets stringeout quality standards - estimated error rate less than 1 per 16.00 bases. Reports of lowest quality individual bases and measures on base quality are little forces. Essentification of the metric stan be longed in the CAT beautification of the metric stan be longed in the CAT beautification.
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Original reconsext
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## ្ Phrap Value Range

7. 2050
/note: Overlaps bases lulu54. .lu4000 of clone ACO38035"
/note: Overlaps bases lulu54. .lu4000 of clone ACO38035"
/note: Overlaps lulu54. .339
/note: Jamily "MRNSA"
867. .l1887 complement(18384...19987) ": 1MP~" 17328) /rpt\_tamily="(ITAA)n" complement(15593...15872) //rpt\_tamily="Algre" complement(15878...16064) //pr\_rom!!y="11pA;4" complement(14985. .15220) /rpt\_family="1.1MEx" 18484) 1775053 17'044) 15517) "Sordidis Omon" msinghab/ /rpt\_ramily>"LIMC1" 6426. .6705 4007) .4204) Alb\_xref-"taxon:9606" /chromosome "12" /clone "RP\*111-66820" /rpt\_family="Al\_rich" 1983, \_2204 //Publisher:
complement(1522), 155
//plimily...,195"
complement(1555), 15
//retliamily.../Alusa... /rpt\_tamily:"Al\_lich" /rpt\_tamily="1,1pA14" 14307. .14970 /rpt\_tamily="(CAA)n" Complement (16457...) Version: 1.01 gxto. Location/Qualitiess 1. .167939 Zrpt\_familys"(3A)n" 1381, 1405 H C THIS IN tamily-"IMPly" /rpt\_family="AluSp" /rpt\_family="1.1MCl" complement(4057, 42 "LIMEO" /rpt\_tamily="LilMCh" /rpt\_lamily="(1G)n" 943. .968 /rpt\_tamily-"LlM4" /rpt\_family="wilk4" complement(6711...? #1.1M4 # /rpt\_family "!!MT comploment(16065. complement (18019. CDNA, A1076826." complement (1740a). Zrpt\_fumily="LIMB complement(17547. complement (3592. 75251. 14 406 /:pt\_:amily 7#34 11104 /rpt\_lamily 15569. .1559 Zipt\_timily 1392 repeat\_region repeat\_region repeat\_region repeat\_region repeat\_region repeat\_region repeat\_region repeat\_region repeat\_region nopeat\_region repeat\_region repeat\_region repeat\_region repeat\_region repeat region noitear Treden repeat\_region repeat\_region repeat\_revion repeat\_region repeat\_region repeat\_region repeat\_region repeat\_region repeat\_region ropeat\_region misc\_teature misc\_teature SOUTOS FEATURES

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E. Barryold, Netacoa, Chordata, Craniata, Verichell, Birtheostonel, Bankalia, Britheola, Primates, Catarrhini, Hominidae, Bonno, Mammalia, Entheria, Primates, Catarrhini, Hominidae, Bonno, Massel, Leo 24410, Adonos, C. Ado-Oduola, B., Ali-Osman, F. R., Alleu, F., Alstonoks, S. L., Amaratunoe, B. C., Are, J. R., Ayelo, M., Banks, I., Sawika, S. L., Amaratunoe, B. C., Are, J. R., Ayelo, M., Branks, I., Sawika, C., Brithe, B., Brith, M., Bryan, M., Charle, F., Burkett, C., Burrell, K. L., Byrd, N. C., Charle, M., Caradas, S. P., Charle, J., Charle, J., Charle, D., Charle, J., Douth, H. H., Douthwaite, K. J., Douth, H. H., Douthwaite, K. J., Douth, H. H., Douthwaite, K. J., Douth, J. Foster, P., Prantz, P., Balls, J., Perraquto, D., Edwards, C., Elbaj, C., Bavyto, M., Galle, S., Hamilten, K. J., Hernandez, O., Harris, C., Harris, K., Harle, K., Harle, K., Harle, K., Harle, K., Harle, K., Harle, C., Harris, C., London, C., London, C., London, C., London, C., Harris, C., Landay, M., Leal, R., Leals, C., Leals, C.

HIG; HIGS\_FINASEL; HIGS\_DKAFL; HIGS\_ACTIVEFIN.

AC080146.22 GI:22213113

AC080136

ACCESSION

KEYWUKUS

VERSION

Homo sapiens

SECANTEM

KEFERENCE AUTHORS

human.

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Db 137097 AAFAGATITTGTAAAGGTAAAAACATCTATATTTAAAGGTTAAAAVA77AAATAAAAGAT ++5548
                                                                                                                                DE 1368B7 TTCTAGAAAGGATCTGCTTTTTCAGGTATTTCCTAAATCCTCTTGTCAFACTTTTTGTCAF
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Li.J., Li.Z., Lithtarge.O., Lieu.G., Liu.J., Liu.W., Loulseged, H., Makeshwari, M., Bucier, A., Lucter, K., Luna, K., Ma.J., Makeshwari, M., Magua, P., Martin, R., Martin, A., Martin, E., Martin, Martin, Martin, Martin, Martin, Martin, Martinez, Martin, Martin, Martinez, Martinez, Martin, Modubut, K., Morgan, M., Morris, S., Miner, G., Miner, M., Martin, M., Morris, S., Margen, M., Maryen, A., Maryen, M., Morris, S., Ordan, P., Parco, J., Navien, G., Parco, M., Parco, M., Parco, J., Parco, M., Parco, J., Parco, M., Parco, J., Peters, L., Privers, B., Prims, B., Peters, J., Quires, M., Ren, Y., Scott, G., Shen, F., Shen, F., Shen, F., Stone, H., Stone, H., Stone, H., Stone, M., Stone, H., Stone, M., Stone, H., Stone, M., Marge, J., Verk, V., Villalon, B., Vinson, K., Wanguez, L., Verk, V., Villalon, B., Vinson, K., Wanguez, M., Villalon, B., Vinson, K., Wanguez, M., Wanguez, M., Warren, R., Washington, C., Walliamson, A., Warren, R., Washington, C., Walliamson, A., Warren, K., Washington, S., Warren, K., Washington, S., Warley, K., Wanguez, C., Walliamson, A., Warren, K., Washington, S., Warley, K., Washington, S., Warley, K., Warren, S., Warley, S., Warren, S., Warley, S
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Notey, K.C.

Notey, K.C.

Direct Submission

AL Submitted (25-2EP-2000) Huma: Genemic Sequencing Center, Department of Molecular and Human Generics, Paylor Soliege of Medicine, one Baylor Plaza, Houston, TX 77030, USA

Reason Lo 244100)

SNS Worley, K.C.

Direct Submission

Submitted (27-AUG-2002) Haman Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor Center, Department of Molecular and Human Genetics, Baylor Center, One On Avg 13, 2002 this Sequence Version replaced quilluly161.

Center: Baylor College of Medicine
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Contact: Masc relpible. Luc. codu
Contact: Project Information
Center clone name: McZin 1-804610
Center clone name: McZin 1-804610

Center clone name: Religions
Sequencing vector: Plasmid;
Sequencing vector: Mass;
Chemistry: Dye primet Bodipy: 4% of reads
Assembly program: Phrap, version 0.990329
Consensus quality: 286223 bases at least 030
Consensus quality: 286223 bases at least 030
Consensus quality: 2711322 bases at least 030
Consensus quality: 2711322 bases at least 030
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Consensus quality: 271132 bases at least 030
Consensus quality: 271132 bases, sum.of-contings estimation
Cuality coverage: 4x in 220 bases, sum.of-contings estimation
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* (See http://www.hgsc.hcm tmc.edu/decs/Genbank draft_dara html)

* (See http://www.hgsc.hcm tmc.edu/decs/Genbank draft_dara html)

* Consists of 12 configs. The true order of the piaces

* Is not known and their order in this sequence lecord is

* trues of Known and their controls are represented as

* Trues of N. but the exart sizes of the gaps are unknown.

* This record will be updated with the finished Sequence

* as soon as it is available and the accession number will

* be preserved.
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Drafting Center Code: BCM
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Unpublished
2 (bases 1 to 244106)
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AUTHORS JOHENAL. PEFEPENCE

TITLE

AUTHORS JOHENAL

COMMENT

PEFERENCE

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AP105814 FK1 25 AP4-2001 HOMO Sabiens amino acid transporter system A. (51A) makka, complete
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Hatanaka, L., Huanq, W., Linq, R., Prasad, P.D., Shdawara, M.,
Leibach, F.B. and Ganapathy, V.
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Hatamaka,F., Huama,W., Hon,W., Pricad,P.D., Sugamira,M.,
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Viel,R., Vo,A., Wilson,B., Wu,X., Myman,D., Younq,G., Zainoun,J., Zombck,L. Emmcr.A. and Zody,H. Direct Submission and Sody,H. Direct Submission Submission Submitted (21-AUG-2002) White,head Hastitute/MH Center for Genome Nessarrh, 20 Charles Street, Cumb.idge, MA 0214, USA on Aug 21, 2002 this sequence version replaced gl:21591843. All repeats were identified Using RepeatMasker:
Smit, A.F.A. & Green, P. (1996-1997)
http://flp.green.wishugt.m.edu,NM,RepeatMasker:html
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This sequence will be replaced by the finished sequence as soon as it is available and the accession number will be preserved.

54360 54450; gap of 100 bp in length
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55491 55590 app of 100 bp

55591 57338. coniig of 1748 bp in length

57339 57438; gap of 100 bp

57439 60576; contig of 3138 bp in length

60577 60676; app of 100 bp

60577 72438; contig of 11752 bp in length
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Mabrooks, S.L., Amaralumqe, H.C., Arche, L. Arche, Pontas, D.,
Barbaria, J., Benton, J., Blankenbara, K., Forning, D.,
Bourk, J., Rowie, S., Brieva, M., Brown, B., Brown, M., Bryant, N.,
Carrent, C., Burch, P., Rarkert, C., Parrell, R.L., Byth, N.C.,
Carrent, C., Gurch, C., Chowdhry, L., Christopoulos, C.,
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Priger S. Trible M. Parce, A. Payton, P., Perce, J., M. Briger S. Trible M. Perce, A. Payton, P., Perce, J., Perce, M., Rejas, A., Elimas, E., Pulla, E., Edin, T., Saver, J., Soderiren, E., Sordike, T., Sparks, A., Stanley, H., Stone, H., Sutton, A., Svatek, A., Tabor, P., Tamerisa, K., Tanq, H., Intsey, J., 197101 E., Payton, J., Tamerisa, K., Tanq, H., Intsey, J., 197101 E., Payton, J., Tomes, S., Warren, K., Washinston, C., Watlington, S., Walliams, G., Williamson, A., Weczyk, P., Wecton, S., Warren, K., Washinston, C., Watlington, S., Watliams, G., Williamson, A., Wherzyk, P., Wecton, S., Werley, E., Perce, T., Perce, E., Werley, E., Perce, T., Perce, E., Werley, E., Werley, P., Werley, E., Werley, E., Werley, P., Werley, E., Perce, T., Perce, E., Werley, E., Werley, E., Perce, T., Perce, E., Werley, E.,
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dabisi, A., Gao, J., Garcia, A., Garner, I., Garra, N., Gill, R.,
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* This record will be updated with the finished sequence as soon as it is available and the accession number will
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Contact: hgsc-help=bem.tmc.edu
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contig of 1154 bp in length cap of miknown length central graph of all 1149 bp in length capitle of 1155 bp in length

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Palls, I., Ferranto, D., Flagg, N., Ford, J., Foster, P., Frantz, P., Gabis, A., Gabis, A., Gareta, A., Garner, T., Garza, N., Cill, R., Correll, J.H., Gaevara, M., Gharer, T., Garza, N., Cill, R., Correll, J.H., Gaevara, G., Garrer, P., Habe, S., Hamilton, R., Harris, C., Hadwson, A., Hoques, M., Holloway, T., Hollins, R., Homer, T., Jackson, L. E., Jacoben, R., Hoher, J., Milyk, S., Homer, T., Jackson, L. E., Jacoben, R., Mars, G., Hollins, R., Homer, C., Lewis, L., Larder, B., Mars, C., Lewis, L., Lous, K., Lucker, B., Lander, C., Lewis, L., Li, J., Li, Z., Licharqe, O., Lico, C., En, J., Jin, W., Louisequd, H., Lozdo, R., Li, Li, J., Li, Z., Lucker, R., Luna, F., Mars, T., Marsey, T., Marchi, R., Martingale, A., Martingale, M., Martingale, M., Martingale, Mart
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sodorgron E., Sonaiko I., Spanke, A., Stankoy, B., Stanko, A., Sunako, B., Satton, A., Sharak, A., Faber, E., Lameriea, A., Lameriea, R., Tame, H., Usancoy, E., Tayler, E., Lameriea, A., Lameriea, R., Tane, H., Usanco, E., Usanco, E., Varanco, C., Vara, V., Villalanda, D., Vinson, K., Wana, C., Ward, Monto, S., Warron, P., Washington, C., Warllington, S., Walliamen, A., Werny, E., Warley, C., Warllington, S., Warron, C., Warllington, C., Warllington, C., Warllington, C., Warron, C.
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4. (bases I to 184007)
Worley, K.c.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Submitted (23-JUL-2002) Human Geneme Sequencing Conter, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, IX 77030, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  on Jul 18, 2002 this sequence version replaced at:20514475,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   * arbitrary, daps between the centius are represented as * runs of N. but the exact sizes of the daps are unknown. * this record will be updated with the finished sequence * as soon as It is available and the accessing number will * be preserved.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                * consists of 63 contids. The true older of the pieces * is not known and their order in this sequence record is
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2380; routig of 1223 bp in length
2480; dap of unknown length
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Worley, K.C.
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Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
1 (bases 1 to 148075)
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132054: contig of 4030 bp in length
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| Birren.B., Nusbaum,C. and Lander.E.
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is believed to be correct as given, however the sizes so the saps between them are based on estimates that have a provided by the submitton.
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* by the finished sequence as soon as it is available and
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/erquism "Hemo sapiens"

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154477 bp DNA Linear HTG 12-AUG-2000
Chicachesen 12 clear HD7, *** FEGURETRE IN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PD 26446 AATALATAATTALAAALATITTALATALAA TALAAALATI LATALATIATALAAATATAA 26505
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              26566 AFATAAATATATATATATATATAAAATATATATTAATTGACTTATATTATT 36625
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    181 TGAACAATGCTCT-CCCTCTCTCGTCTTCATCCTCATAAATTTTTAGAAGACAGAAT 239
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      300 GGAAACTGTGATTTGGTATATATATATATATATATATTTTAT FCTGTAGTCAGAAATGT 359
                                                                                                                                                                                                                                                                                                                                                                                                               61 ACCCONTITATITCAATCATAGACAACAACAAAAAATAATGTTATAGTTAAACTG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121 TECTAGAAAGCALCIGCITHITEATGITATHOCTAAATGCECTTIGIGATACHITTGICAT (80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   240 GGTGGAGATACACTACAGTATTGTTTGATAGATTTTTATTTGATAAACATTCAGTGCA 299
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Direct Submission
Submitted (05-JAN-1999) Stanford BMA Sequencing and Technology
Center, Stanford University, 855 Saliternia Assence, Palo Alto,
94-004, USA
                                                                                                                                                                                                                                               of Minnatifier 211, Indelto 1, Sape
                                                                                                                                                                                                                                                                                                          1. AATAGATTTTTGTGAATGT FAAAAGAFTAGAFFGFAAGGTFGAAGGTFAAAAGGAF
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Kurdi, O.B., Comway, A.B. and Davis, R.W.
Plusmodium faleiparum 307 chromessame 12
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1 (bases 1 to 19447)
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* NOTE: This is a "working deal" replace. If or real,

* consists of 4 countings. The true order of the pieces.

* is not known and their order in this sequence record is

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Prod No. 0 011.
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PROCRESS ***, 4 unordered pieces.
Adb_vini "tavon-9606"
                                                                          /elone="crc-78267"
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Homan F W , Punq, F 1
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10515: contiq of 10515 bp in length

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PA1 v1 N/V-2007
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   63 COCCTTTATTTCAATCATAGAGCAACAAAAAATAATGCTTATAGCTAAACTGCCTCTT 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3 TAGATITITICI AAATGITAAAACATCIATATITIAAATGITAAAACACIAAATATATAGAAAG 62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         38122 CERTIFICATION ON CONTINUENT OF THE FIRST INTERCEDIANT AND CONTINUENT OF THE CO
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10715: dap of unknown length
144870: contig of 134155 bp in length
145070: aap of unknown length
149210: contig of 3340 bp in length
149210: qap of unknown length
153477: contig of 4267 bp in length
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1. .153477
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                                                           AXX23620 1572 bp DNA
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Ond, A., Verke, P., Francellaro, E., Beras, E., Diazi, J., Dodar, S.,

Fato, S., Ferreita, P., Fitzfleth, M., Gallins, S., Califorda, S.,

Glade, S., Gott, S., Goyette, M., Graham, L., Ghusan, F., Dares, C.,

Barres, E., Horton, L., Bulme, M., Orbina, L., Ghusan, F., Dares, C.,

Favor, A., Karaco, E., Bolme, M., Orbina, L., Ghusan, F., Dares, C.,

Barres, E., Horton, L., Bulme, M., Orbina, L., Ghusan, F., Dares, C.,

Rabares, E., Horton, L., Bulme, M., Orbina, L., Ghusan, F., Marthews, C.,

Int. Lance, F., Markon, J., Maryine, R., Lindblad, Ph. K., Lin, S.,

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Richer, J., Norderson, E., Brakkana, E., Maldrifft, D., Merces, I.,

Rabares, C., Norderson, E., Brakkana, F., Scharett, E., Califorde, R.,

Rapimon, J., Resetti, M., Roy, A., Santos, R., Scharer, S., Schupterk, R.,

Scharen, J., Revery, P., Spenger, B., Straver, B., Straver, J.,

Scharen, J., Santos, R., Milson, B., Stanger, B., Straver, J., Straver, J.,

Salioum, J., Serfield, M., Weiley, R., Straver, M., Strawer, J.,

Viel, R., W., A., Wilson, B., Weiley, R., Vassil, etc.,

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* are represented as runs of N. The order of the pieces.
* is helipped to be correct as given, beween the sides.
* of the gaps between them are based on estimates that have
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* This sequence will be replaced
* by the linished sequence as soon as it is available and
* the accession number will be preserved.

* 777 816: qap of 100 bp
* 877 818: qap of 100 bp
* 878 1993: contiq of 671 bp in length
* 1888 1887: dap of 100 bp
* 1588 1994: contiq of 406 bp in length
Quality coverage: 17.1 in 920 bases; agarose-tp Quality coverage: 17.0 in 920 bases; sum of configs
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12. AND ALTATATEM TRANSON OR AND AND TRANSCONTOUR PROPERTY OF THE PROPERTY OF 
                                      New membrane transporter protein (referred to as 572% and 5828%), useful for diagnosing, treating disorders e.g. Alzheimer's disease, manil, observing regrulaire fisorder, anxiety and diabetes.
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Rightation, which is useful in treatment and diadrosis of transporter associated disorders. These disorders include central nervous system (CNS) disorders, autoimmune function disorders, learning or memory disorders, by polar affective neurological disorders, cardiac-related disorders, cancer, tumour anglodenesis and metastasis, skeletal disorders, hepatic disorders, an haematopolicie and/for most liferative disorders, and bomeleanes of the polymorters the polypoptides and polymorterides, and bomeleanes of the polymorter disorders, and bomeleanes of the polymorter disorders and unithodies, and testing assays, predictive medicine (e.g. diagnostic
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AAZ94129 standard; cDNA; 3857 BP.
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The present invention relates to murine coding sequences for 7-transmembrane G-protein coupled protein receptors (7DM GPCBS), the present sequence is one such murine 7TM GPCBR coding sequence. The present sequence was derived throm strong stong cells, the present sequence and its corresponding protein are useful in the prevention, diagnosis and its corresponding protein are useful in the prevention, diagnosis and treatment of diseases associated with imapprograms 7GPK expression. 7TM-GPCBR identify specific signalling molecules, to activate an effector signalling easeage that triggers an intracellular response and
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Bunany ^{67} LSE: expressed sequence tag: secreted protein; obtation; generally acreated proteins of paper of supplied; ss.
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If prime of NA librations lade filts are not well switted for isolating crisk sequences derived from the C ends of MENAs and even in those crisks who clonear CDNA sequences have been obtained, the full 50 01K is rarely included 5 ESIS are derived from mENAS with infact 60 ends and the relevence weed to obtain full length cDNAs and denomic DNAS. 50 ESIS are also used
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They are used to obtain upstream regulatory sequences and to design
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diaquostic, terensic, gene therapy and chromosome mapping procedures
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obtaining cDNAs and generals DNAs that carrespond to 5 (ES)s and to
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Sequence 457 Bit Lie A; 66 C; 57 G; \$12 1; U attact

l; Gaps

33.7%; Scote 168.8; DB 22; Length 558; 80.9%; Pred. No. 6.6e 28; Live 0: Mismatches 48; Indels 1;

Best Local Similarity 80.9 Matches 208; Conservative

Uniory Match

Sequence 15742 BP; 5557 A; 70 C; 2865 C; 7249 L; 0 other;

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Sequences A845296-A8845520 represent observing prefixered accessor that molecules associated with the coll cycle and specific PCR primers of the invention. The sequences are useful for detecting the methylation state of all CPG dimuched these in a sequence and detector for analysing associated diseases. By analysing the methylations in the protreated link, gonetic analysing the protreated link, gonetic analysing the protreated link, gonetic and the protreated link, gonetic analysing the protreated link, gonetic analysing the protreated link, gonetic analysing the diseases.
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                                                            and/or epidenti, primariti, the differences serving as best for diamons's and/or produceds creats which are disadoutogoods to partients. The sequences of the invention are usuall for the diamons's and therapy of the invention, neurodegeneralize disease, arriv betsus hest disease, aging, glomeralar disease, kewy body disease, arrhitis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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The parameters may be compared to another at of genetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Themically pretreated complementary DNA associated with cell cycle #47.
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                                                                                                                                                                                                                                                                                                                                                                                                 | AAFAGATTITITGTAAATGTTAAAAGAFFTTAAATGTTTAAATGTTAAAAGAGFFF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    61. ANDROCTERATE HICKARTO AFARANO MANDAMARI AMERICA TRI ANGERTARA CEGACE TER
ELLE HELLE MANDAMEN MANDAMARA FAMINANTA MANDAMENTA HARANGETTARA MANDAMARA M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          besigning primers and probes for analysing diseases associated with cytosine methylation state e.g. arthritis, cancer, aging, arterioselerosis comprising fragments of chemically modified genes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 118; DB 21; Length 355;
Pred. No. 8e-17;
                                                                                                     Best Local Similarity Terrery, Fred. No. 8e+1
Matches 118; Conservative 0; Mismatches
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                                                                                                                                                              Claim 1; SEQ 1D No 94; 28pp; English.
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FMAN CYLUCHIC MECHANISM STATES CRIP, PETERSTRUM STATES CRIP, CYLUCHICAL MECHANISM, Adenosine deaminase definition of a more state. Searcy Syndrome, hardenotical disorder, taken cultivated disorder, Warter syndrome, hardenotical disorder, taken cultivated disorder, Warter syndrome, developmental disorder, postriasis, Kleder's syndrome, heurological disorder; erythropolesus: mycledyzelasti: syndromer procardial miarchical syndromer prevailable and disorder; erythropolesus: mycledyzelasti: syndromer procardial miarchical hydrotrension arthritis.
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                                                                                                                                                                          278 FALTTGAFAAACATTCAGTGCAGGAAACTGTGATTTGCTATATGTTTATGTATATATOT 347
                                                                                                                                                                                                                                                            New modelic acids or oligomers, useful for diagnosing or freating diseases associated with DNA transcription, e.g. immunological diseaders, Werner syndrome, pseriasis, myceardial infarction, solid
11.08; Seore 55; DN 22; Janqth 157:2;
51.48; Pred, No. 0.008;
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                                              0; Mismatches 120; Indels
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30 JUN-2900; 20000E-1032529.
01-SEP-2000; 20000E-1043826.
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                                                Conservative
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Best Local Similarity
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                                              Matches 127;
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40-10N 2500; 20000E-1042528. 01-SEF-2500; 20000E 1944826.

Phopping Program

HOR A.

(RIIG-) EFFIEN MITS AG.

02-JUL-2001; Z001W+ EP07547

03-JAN 2002.

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The invention relates to a nucleic acid, which comprises a segment of the deminally pretreated DNA of genes associated with DNA transcription from one of 346 sequences, and an obloomer, in particular an obloomerentie or peptide nucleic acid (FRA) situater that the idensity or is identical to the chemically pretreated DNA of genes associated with DNA transcription. The set of obloomer probes are useful for detecting the cytosic methylatics state and/or single nucleotide polymorphisms (SNPs) in a chemically pretreated than a chemically pretreated that the models are useful for diagnosing or treating diseases associated with DNA transcription (particularly with the methylatic) of adventing dominates.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      syndrome. Niemann-tiel disease, myeledyspiastic syndrome, mycrardial infarction, hypertensia, analogonisis, crythiopolicas, condeniud heart disease, 408 syndrome, arthritis, polygluidamine disorders, solid tumours or cancer, Separatra AFK28472 applygluidamine disorders, solid tumours or cancer, Separatra AFK28472 applygluidamine disorders, solid tumours or cancer, Separatra AFK28472 applygluidamine disorders, solid tumours where Inc sequence data for this patent did not turn part of the printed specification but was obtained in electronic format directly from the
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acato myeloid lenkaemia; Alzheimer's disease; ALS: epilopsy,
hearofiktomatesis: thematoid arthiitis: psorinsis: kowel disease;
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50.4%; Fred. No. 0.0*L;
five 6; Mismatches 125; Indeis
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Bost Local Similarity
Matches 127: Paserva
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W0290209528-A2. Homo sapiens.

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The present invention provides a number of human immuno system associated orones which are modified by the methylation of cytosines. The sequences can be used in the diagnosis and treatment of immune system disorders, including eye diseases such as retimopally, newascular glaucoma and macular demention, arrorioselerasis, anemia, career, acute myeloid lethermia, Albertier's also arrorioselerasis, anemia, career, acute myeloid determina, Albertier's having an anomaloid arthritis, psociasis and inflammatory/pleorative bowel diseases. The present sequence is a gene of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1436 ALAKASAT UTU BATI FITAMABAKAMARIA BARAHAH IN PAMATARAH TAMAM 1495
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            242 TOGAGATACACTACCCACTATIGTITGAIACACTITITATITIGAIAACALTCAGIGCAGI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               302 AAACTGTGATTTGCTATATGTTTATGTATATCTTTATGTCTGTAGTCAGAAFGTTA 361
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                                                                                                                                                                                                                                                                                                                                                                                                    Ruckett acid comprision fromment of chemically modified gener, us
for diagnosis and treatment of discases associated with abnormal
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0: Mismatches 257;
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45.7%; Pred. No. 0.0
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01-SEP-2000; 2000bE-1043826.
                                                                                                                                                                12-JUL-2001; 2001We-EPO7547.
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                                                                                                                                                                                                                                                                         (EPIG-) EPIGENOMICS AG.
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                                                                              W-200200928-AZ
                                   Homo Sapiens.
                                                                                                                        04-JAN-2002.
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and therapy of diseases such as solid tumons and cancer. The sequences given in records ABL7011-ABL70626 represent chemically pre-treated enough DAM's of genes associated with cell signalling.

Note: The sequence data for this patent is not represented in the printed specification, but is based on sequence information supplied by the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   to provide the chemically modified DNA of genes associated with coll signalling, as well as oligomucleotides and/or PNA-oligomers for detection exposite methylations, as well as a method which is particularly sultable for the diagnosis and/or therapy of genetic and epigenetic parameters of genes associated with cell signalling. The chemically modified DNA provided by the invention is useful for diagnosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The Invention relates to a nucleic acid comprising a sequence of at least 18 bases of a segment of chemically preferated DNA of series associated with cell signathing. The activity of the modified sequences of the invention may be described as cytostatic. The object of the invention is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Nucleic acid, useful for diagnosis and therapy of diseases associated with cell signalling e.g. cancer, comprises chemically modified genomic sequences of genes associated with cell signalling
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                                                                                                                                                                                                                                                                                      Cell signalling; eytosine methylation; cell signalling disease;
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2.4%; Pred. No. 0.11;
ve. 0; Mismatches 99; Indels 0;
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                                                                                                                                                                                                                                        Chemically treated cell signalling DNA sequence#??
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01-SEP-2000; 2000DE-1047826.
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Matches 109; Conservative
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1907 AIAIAIITII 1916
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                                                               RESULT 12
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genes which are modified by cyrosine methylation, the sequences can be used in the diagnosis and treatment of cancer. The present seprence is one of the acros of the intention.
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Sport A5.5, The 24: Togeth Providence Boot Local City of $22.4%; Providence 0.11:
Matthew Providence Company of the Matthews Providence Company of Comp
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                318 FATGTTTALSTATATAALCTTATFTLGTAGTGABAATGTTAATGTAAAGTAGATTTG 377
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 52.7%; Pred. No. 0.4;
Matches 128, Conservative 0; Mismatches 114; Indels 1; Gops
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Nucleic acid comprising tragment of chemically modified acno, useful for diagnosis and treatment of diseases associated with abnormal
                                                                                                                                                                                            Duman: immune system disease; cytôsine methylation; antiasthmatic; antianednic; cytôsine malicimotropic; undiatember; antianednic; cytôsine malicimotropic; antianednic; anticonoulsant; obtthe mologicis; antiarthritic; antidiabetic; antipsoriatic; antinthemator; concer; eye disease; antipologicis; anaemia; antinthemator; concer; eye disease; alteriosecrosis; anaemia; acute mycloid loukaemia; Alekofamet's disease; Albs; topicopsy; neurolibromatosis; theumatoid arthritis; psoriasis; towel disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 16766 BP; 4604 A; 267 C; 4632 G; 8263 I; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              laim 1; SEQ ID No 2130; 32pp · Sequence listing; German.
                                                                                                                                                         Human immune system associated gene SRg ID No: 2130.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      dek A, Piepenbrock C, Berijn K;
                                       ABL34157 standard; DNA; 16766 RP
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                                                                                                                    26 MAR-2002 (tirst entry)
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## GenCore version 5.1.3 Copyright (c) 1993 - 2003 Compugen Ltd.

UM nucleic - nucleic search, using sw model

(without alignments) 10644.887 Million cell apdates/ser January 4, 2003, 08:30;55 : Search time 762,955 Seconds Pith On:

08-09-776-705-3\_ChPY\_3hdno\_3hdno 501 Title: Perfect score:

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l autagatittigiaapigit sequence:

DENTITY\_NUC Capop 10.0 , Gapext 1.0 Shorting table:

16154066 segs, 8097744376 residues Searched:

12 :091 h2 lotal number of hits satisfying chosen parameters.

Minimum DB seq length: 0 Maximum DB seq length: 2000000000

Maximum Match 100% Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

em\_dss\_mus:\* em\_dss\_othor:\* em\_gss\_mam:\* ab\_est5:\*
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Pred. No. is the mamber of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by applysis of the regial score distribution. em\_qss\_rod:\*

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#### SUMMARIES

| Mos.         Score         March Longth DB         ID         DESCRIPTION           1         501         100.0         749         12         RG5E8069         RG5E8074         RG5E8074           2         178         95         4         6.66         12         RG5E8074         RG5E874         RG5E8742         RG5E8742         RG5E8742         RG5E8742         RG5E8742         RG5E8742         RG5E8742         RG5E8742         RG5E8742         RG5S1485         AV6E3485         AV6E3485         AV6E3485         AV6E0303         AV6E0303 |               |       | æ    |        |     |          |   |
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| 100.0 749 12 BG568069<br>95.4 694 12 BG568069<br>80.8 405 10 AV533985<br>51.7 854 10 AV53303<br>42.3 287 10 AV53302<br>40.6 515 14 BO031502   | Result<br>No. |       |      | Length | 108 | 10       | Description                             |
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### ALLIGNMENTS

|                   | BG568069 749 bp mRNA linear ESI le APP 2001 |            | mkNA sequence. | RG568049 | BG568069.1 G1:14575722 | EST.      | Pulman. | Homo sapicais | Enkaryota, Metasca, Chordata, Craniata, Vertebata, Esteleostemi; | Mammulia, Entheria, Primates, Catarrhini, Hominidae, Bome. | ] (bases a to 244) | The state of the s | National institutes of Regith, Mammalian Gene Oblicetton (MST) | Gupubdishad (1994) | Toda T. Bilan Statished, Phil. | Email: equpts-rumail.mih.gov | Tissue Procurement: CLONETECH Laboratories, 160. | CONA Library Preparation: CENETECH Laboratories, 100. | ASINA LIDITARY Arrayed by. The T.M.A.T.L. Sons-1'lims (LINE) | DNA Sequencina by: Incyte Genomics, Inc. | Clone distribution: MGC clone distribution interpation can be | tound through the L.M.A.G.E. Poisson LimpüisM. at: | http://mage.linl.gov | Plate: llCM1562 row: n column: 11 | High quality sequence stop: 748. | (2874) (25./Qual 11 Refs<br>(27. 1749) |  |
|-------------------|---|------------|----------------|----------|------------------------|-----------|---------|---------------|--|--|--------------------|--|--|--------------------|--------------------------------|------------------------------|--|---|--|--|---|--|----------------------|-----------------------------------|----------------------------------|--|--|
| FESULT 1 F3568069 | LOCUS                                       | LEFINITION |                | ACESSION | V SRS FON              | K SYWORDS | SURCE   | CRGANISM      |  |  | R FFERENCE         | AUTHORS  | TITLE  | JOHN WAL           | CHARM                          |                              |  |   |  |  |   |  |                      |                                   |                                  | FI ATTENDED                            |  |

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Eukarysta: Metaroa; Chordata, Craniata, Vertebrata, Eutelcostomi,
Mammalla; Euteria; Primates; Catarrhini; Hominidae; Homo.

[ (Bases I to 696)
BJF NC Perf. (1996)
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AUTHORS

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// Unit_lib "Hill HSC_76"
// Init_lib "HILL 
                                                                                                                                        Contact: Echcit Strauberg, Ph.D.

Demail: Crapbs remail nih.gov

Fissue Procurement: CLONETECH Laboratories, Inc.

Fissue Procurement: CLONETECH Laboratories, Inc.

CDNA Library Progration: CLONETECH Laboratories, Inc.

CDNA Library Arrayed by: The L.M.A.G.E. Consoition (LIMI)

PNA Sequencing by: They're Genomics, Inc.

Clone distribution. MGC clone distribution information can be found through the LM.A.G.E. Consortium/LiMI at:
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X.X. Huane, J. X., E., Eita, E., Ela, E., Yan, C., Cai, F., Chana, X., X., Huane, J. X., C., Eita, E., Ela, C., Yan, C., Cai, F., Chana, X., Shen, E., Lu, G., F., Cai, F., Cai, M., Chen, C., Cai, C., 
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chwa Library preparation: Br. M. Bentő Swares, University of Lowardwa Library Arrayed by: Dr. M. Bento Scares, University of Lowar PMA September by: Br. M. Pento Scares, Taiversity of Lowar Clone Distribution: Clone distribution information can be obtained
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Tissua Pparapromént by Mirani Ko, Gr.
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Tanfare, C., Fujita, M., Garlboldi, M., Gustineich, S., Hill.D.,
Holmann, M., Hume, D.A., Kamiya, M., Leck, N.H., Lyons, P.,
Marchionni, L., Mashima, J., Mazzarelli, J., Mankaerts, F., Nördöne, F.,
Khur, B., Firmwall, M., Bedriaperi, L., Sabandols, N., Sasaki, H.,
Stor, K., Schonkach, C., Soya, T., Schike, B.Y., Storch, K.F., Suzik, H.,
Toyoroka, K., Wanay, K.H., Weitz, C., Whittaker, C., Wilming, L.,
Wyushaw, Porte, A., Vezil, Ch.F., Bloches, T., Khasji, B., Enke, K.E.,
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Fanaki, F., Fejimi, Y., Teya, F., Yumimiti, F., Yusumiki, E.,
Yasunishi, A., Yoshida, K., Yoshino, M., Muramatsu, M., and
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EST 17-1407 1998
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HASE Consortion (into-Timage lintage) for further intormation.
                                                                                                                      129 AGPATGTGGTTTTTTAATGTTATTGGTAAATGGTGTTGTGATAGTTTTGTGATTGAAAT 183
                                                                                                                                           107 OCTICCOCTOTOCIOTICCOTTOCATOCIONA PITTOAGAAGACAAGACOCOLGI 166
                                                                                                                                                                                                                                                                                                DA FILITALIATA DA DIAMPRANTATTOTTEGATAOATPITTEATTOATAAAAAATPITGANFOAGOA FOL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   s Similarity 40.1%; Score 200.8; DB II: Length 1501; Similarity 81.6%; Pred. No. 2.4e-29; Sy. Ginsgrating 9, Mismatches et et
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Mashington University School of Medicinel
1111 Dongt Park Parkway, Wew REDI, St. 15
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Contact: Marra M/Mouse EST Project
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                                Onery Materia
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/noth-"organ: liver; Vector: pMETHS-FL3; Site_1: braill (GATGATGTC); 18t, strand cDNA was primed with an olido(d1) primer is tranded to the ATGTGGCTTTTTTTTTTTTTTTTT]; double-stranded cDNA was lighted to a braill adaptor [TGTTGGCTACTGG], digested and cloud into distinct Duall sites of the pMETHS-FL3 vector (S. site CAGTGTG), 3 site, of the pMETHS-FL3 vector (S. site CAGTGTGT), 3 site, of the pMETHS-FL3 vector (S. site CAGTGTGT), 3 site, of the pMETHS-FL3 vector (S. site CAGTGTGT), 3 site, of the pMETHS-FL3 vector (S. site CAGTGTGT), 3 site, of site sites of the pMETHS-FL3 vector (S. site CAGTGTGTGT), 3 site, of site of the pMETHS of the pTimer of Medical Science). Custom primers for sequencing: 5' end primer of TGTGTGTGTAAAAGCTGCG and 3' end primer of AGTGTGTAAAAAGCTGCG and 3' end
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STATESCOLO COLOR MOUSE NMI, Mus muserilus CDNA clone IMAGR:693191
ATAGEREE COLOR COLO
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Mammalia, Eutheria, Rodentia, Schuroquathi, Muridae, Murinae, Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              173 TITGICATTGAACAATGCTCTCCCTCTCGTCTCCATCCTCA---TTCAGAATTTTTAGA 229
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Washington University School of Mcdicine
4444 Forest Park Firkany, Research 1918, Mr.
                                                 /clone_lib="Sugano mouse liver mlia"
/sex "female"
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/clone="IMAGE:1923302"
                                                                                                                                                   /dev_stage = "adult"
/lab_host_"pH10B"
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Zunte-"Vector: p12T32 pac (Pharmacia) with a moditiod polytimker; Site_1: Not 1: Site_2: Fee Fir Bit attack Site in a not 1: oligood() polymer [6] was primed with a not 1: oligood() polymer [6] double strinded characteristic for the first primed characteristic for the first primed characteristic for the form of the first the Not 1: and closed into the Not 1:
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1 (bases 1 to 187)
                                           with those of corresponding noncancerous liver
Proc. Natl. Acad. Sci. U.S.A. 98 (25), 15089-15004 (2001)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    this clone is available at CHGC in Shanghai.
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                                                                                                                                                                                                                                                                                                                                    Tel: 86-21-50801919(ex.45)
Fax: 86-21-50801922
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                                                                                                                                                                                                                                                                                                                                                                                                                            Email: hanzqdchqc.sh.gn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AV649278.1 01:9869292
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X. Alamania; Porteria; Prémits; Cararrilli: Beminidae; Homo. 1 (bases 1 to 487)

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AVET8032 GLZ Homo sapiens chara chone Glafefall 17, mKNA sequence.
AVET8032
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                                                                                                                                            Posimination Engineering (Market Action Control of Market 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             408 TOTTCACAGTCAAAGCATTTATATTTGGGGGTGGGGCAGGGAATTAAGTTGGTGGGC 467
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                                                                                                                                                                                                                                                                                                                                    Contact: Robert Stransberg, Ph.D.
Email: egapbs rimail.nih.gov
Fissue Procurement: CLONETECH Laboratories, Inc.
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Matches 151: Conservative Or Mismatches
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Xu.X., Huang, Y.Xu.Z., Qian, B., Zhu.Z., Yan.O., Cat.T., Zhanq.X., Xiao.H., Qu.J., Elu.F., Huanq.Q., Cheng.Z., H.N., Du.J., Ha.W., Shen, F., E., Zhera, M., Xi.S., Cu.W., Hazusy.W., Ela.X., Hu.G., Gu.J., Chen, Z., and Han, Z., Trian, H. G., Gu.J., Chen, Z., and Han, Z., Trian, H. G., Chen, Z., and Han, Z., Trian, H. G., Chen, Z., and Han, Z., Trian, G., Chen, Z., and Han, Z., Cu.W., Hazusyrip, Ann. Lawin Insight into hepiterellihar marrier progression profiles of hypotocellular carcinoma
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351 Gho Shonjing Road, Zhangjiang Hi-Tech Park, Pudong, Shanghai
201002, P. 9. China
Tel: 86-21 F0801912
Fax: 86-21 F0801922
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Search time 2774.66 Seconds (without alignments) 10644.887 Million cell updates/sec January 4, 2003, 08:30:55 Run on:

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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C, or G and N = A, C, G, or T). Average insert size 1.85 EE (range 1.9 4.9 kb). 15/15 colonies contained inserts by PCR. This library was enriched for full-length clones and was constructed by Cznicerh. Laboratories (Pulo Alto, CA). Note: this is a NH_MMC Library."
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WIND BOTH CONTROL OF HEALTH, Manmallan Gene Collection (MMC)
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Marra M., Hillior, L., Allen, M., Bowles, M., Dietrich, N., Duboque, T., Geisel, S., Kucaba, T., Levy, M., Martin, J., Morris, M., Schellenberg, K., Steptbe, M., Tan, F., Underwood, K., Moure, B., Theising, B., Wylie, T., Lennon, G., Soares, B., Wilson, R. and
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Contact: Marra M/Mouse EST Project
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Tissue Procurement: Jeffrey E. Green, M.D.
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Manualia, Etheria, Rederida, Princendalia, Muribac, Marines Huss,
T. (2002) 140-823.
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liseic Pristramant, Jeffrey B. Green, H.D.
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83.1%; Pred. No. 3.2c-137;
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This clone is available royal!y-tree through MAN.; contact the
                                                                                                                                                                                                                                                                                                                                                                                             IMAGE Consortium (infolimage.llnl.gov) tar tuttier information.
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444 Forest Fark Parkway, Box 8501, St. Louis, Mo 63108
Fax: 314 286 1810
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740 GAA ESTANOTOAN SONAN AND NATOATALTI CERTINI GERANDA HANDOTIONA 799
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Washirston Guiversit, School of Andreinell
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(CACGOGGA); Site_2: Drail (CACCAGGA); ist strand cDNA
was primed with an olioofT) primer
(ATGGACCTITITITITITITITY) double-stranded cDNA was
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and deposit to Brail adaptor (TATGGACAGGA), discred
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performed to exclude fragments (TatgaCAGAGGA)
constructed by Dr. Samio Signo (TatgaCAGAGGA)
Institute of Medical Science). Custom primers for
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correct orientation), as part of the L.M.A.B.E. Consortium quality control effort. Bidn quality sequence is defined as having 100 or more base pairs with a phraed quality value of 20 or greater, where a sliding window of 4 base pairs with a phred quality value of 15 or greater marks the beginning and end of the sequence. For
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National Institutes of Health, Mammalian Gene Collection (MGC)
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#### SUMMARIES

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| 5             | 89.4      | 4.9            | 212                      | 0        | US-09-960-352-14353       | Sequence 14353, A  |
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| MALOMICAGI (PA)<br>ITTIGGGGAAAAAG<br>ITTIGGGGAAAAAG                        | IGGAATGI<br>TTTTTTT<br>TGGAATGI                  | FOUTATION CATURESTA<br>THE HITTELET HE<br>TOUTATION CATURELLA                       | MATTATOACTOTAT  | TTALGAAAATTA<br>                                 | SCALTAČAALUSAG<br>TELETELLELE<br>SCALTAČAATGCAG   | ACCTGAAGTAATC<br>TELETETTTTT                     | VIGGCAACTACCTC<br>                                | AAATTTAGGTTAT<br>                              | PACTETECTER!!                                | PECTEOGRAPHETIC<br>   | CTCTCACACT FOT<br>                         | GTATTAGAACTAG<br>                               | TO A POR TAKETO TELEMENTO | TAF TASTAL TATA TATA TATA TATA TATA TATA TA     | Austraatrossa<br>                                | CAFATACTOTIF<br>  ITH HILLIIII<br>  SALOTASTESTA   | ALTACLESARGES<br>THEFTHER<br>ASTACTIONS   |
| ALLE MUNANANCETAG<br>TPCTGACANATGGAT<br>FLEH HELLELLELL<br>TO TGACANATGGAT | SCAACCACITCCT<br>[TITLITITITITI<br>SCAACCACITCCT | ALCCTGGGCTTGT<br>   | TITGGTGTGGGAA<br>HILLIHHHH<br>TITGGTGTGGGGAA  | DOAGGGTETTTGA<br>FLLETTTTTTTTTT<br>SGAGGGTETTTGA | STAGOTITECTITE BLITTELLITE STAGOTITECTITE         | APTAAATATGAAG<br>HILLILLILLILLI<br>ALTAAATATGAAG | SAATGGTACCTCA/<br>FELLITETTT<br>SAATGGTACTCA/     | TITICATOTITA<br>HIHIHIHIHI<br>TITICATOTITA     | ATCSTCTTTTTCT<br>HILLHHHHH<br>ATGSTGTTTTTGT  | STITTGGATCACAC<br>HILLHHILLL<br>STITTGGATCACA   | ATGITACONAGA<br>HITTITIII<br>ATGITACONAACA | NATOSTGCAGGGC<br>                               | IATCAACTICATA<br>HHHHHHHHH<br>IATCAAGTICATA   | CCTATUDAATTO                                    | ROACTCAACTTA<br>HITHHIH<br>MOACTCAACTTA          | W30530A16C1T01<br>   | AAAGTTGAAGATUZ<br>ELFELLELELEL<br>AAAGTTGAAGATUZ  |
| GATAGGAA<br>TCAGAAAT<br>1111111<br>TCAGAAAT                                | TGAACACCATOOO<br>LELELLILLELE<br>TGAACCATOOO     | ICATGGGAGTGGAATCCTGGGTTGTP<br>FELLELELELELELELETTTTT<br>ICATGGGAGTGGAATCCLGGGGTTGTC | TALAATCATGCTG<br>   | AACAGCAAGGAA<br>HTTHTHTHTH<br>AACAGCAAGGAA       | GPCGGGAAAAATT<br>                                 | CTACCTCTTTATC<br>                                | AGAAATACTGGA<br>HTFFFFFFFF<br>AGAAATACTGGA        | AATTATTOTTOGA<br>HILLITITT<br>AATTATTOTTOGA    | TICICITACCIOC<br>HHILLHIIII<br>TICICITACCIGO | CTGCCCTCTACCTCTACCTCTCTACCTACTA | AATGCATCTGG FA<br>                         | TTACACO (ACCO)<br>HTTHHHHH<br>TTACACO CACCOC    | PAGEGGAGTAGAA<br>ITITITITITI<br>CAGTGGAGTAGAA   | PARCTOSCOGACO<br>THEFT HITTER<br>PARCTOCOGGACG  | SGFOOT LONGARY<br>HILLELLELELL<br>SGFOOT LOOGARG | AAATATTI VOORTO<br>HITTEETI HELLE<br>AAATATTI OORTO  | AACCT PCTATGGA<br>  |
| CTACATORU<br>CACTGAAAG<br>TTELLELE   | ğ Eğ   | recear<br>HIIII<br>recear   | ACUTIFE<br>HILLIIII   | ATTAAA<br>        <br> ATTAAA                    | FIGATOR<br>FILLET<br>FGGATOR                      | GTCAAG<br>HTHHH<br>GTCAAG                        | ACTTGA<br>111111<br>ACTTGA                        | 1617GG<br>11111<br>16177GG                     | FCGATT<br>HILLI<br>FGGATT                    | AATACC<br>TITLLI<br>AAFACC  | OCTTOD<br>HILLI<br>GCTTOO                  | GATGGA<br>IIIIII<br>GATGGA                      | TCAFGA<br>HILLI<br>FCALGA   | TGFATF<br>FILLI<br>TGTATF                       | PPPTGA<br>UTITITE<br>CCC FGAG                    | \$61610<br>  | THACCTA<br>HILLI<br>HACCTA  |
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TITLE OF INVENTION: 57.56 AND 58289, B VIT. BIBBAN

TITLE OF INVENTION: 77.56 AND 58289, B VIT. BIBBAN

TITLE OF INVENTION: 78AM5987 B VIT. BIBBAN

TITLE OF INVENTION: 78AM5987 B VIT. BIBBAN

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CURKEN FILLING ALE: 2004-05-17
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1424 GLGGCASTAAGAFAAGTISTSCCAFTGTGTGTTGCCAATICGTAGTGASTGATGAT
                                                                                                                                                                                          APPLICANT: Moore, Kateri
TITLE OP INVENTION: CHAES THAT REGULATE HEATOPITTED ALOND FORMING STEE
TITLE OF INVENTION: CLULS AND USES THEREOF
FILE REFERENCE: 2275-1-005
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| 충용              | 500          | CHTGCTGTGGCAATALTATCACTGTATTCAGTTCACCTTTATTAAAAACASGCAAGGAA<br>  | 559<br>164   |
| 장골              | 560          | GGAGGGTCTTTGATTTATGAAAATTAGGAGAAAGGGTTTGGATGGGGGAGAAAATT<br>FIFIFIFFFFFFFFFFFFFFFFFFFFFFFFFFF  | 519<br>524   |
| <u> </u>        | 620<br>525   | GGAGGTITGTITGGATTACAATGGAGAACATGGAGGAATGTCAAGGTACGTCTTTATG<br>   | 579<br>584   |
| कु ब            | 680<br>585   | ALTAAALATGAACTACCTGAAGTAALGAGACCATCATGGGACTTGAAGAAAATACTGAA<br>  | 739          |
| χ <u>α</u>      | 740          | GAALGGLACCICAATGGCAACTACCICATCATATITGTGTCTGTIGGAATTATTGTTCCA<br>[HIHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH   | 799          |
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| £ 8             | 920          | GTTITGGATGAGAGTGTTGAAATGTGFGAT PAAGAAGAGGGTTGGAATGGATGGGTA<br>   | 979<br>384   |
| 寄養              | 2 B          | ATGHTAPPGAAQAACTETGAGATCTGATGTGAAYTTPATGATGGATTACAGGGGGGG<br>PELLI TELLI TALGAGAGAGGAGGAGGGGGGGGGGGGGAAYTTCALGATGATGATACGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG   | 1039<br>944  |
| 3 8             | 1040<br>945  | AATOCTOTAGGOOGGGAGAAACAGOOGAAGAGAGAGAGAGAGAGAGAG   | 1099<br>1004 |
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| U-C < 0 < 0  | 35 L L L 12 W                           | - · · · · · · · · · · ·  |  |   |   | A 15<br>A 15<br>A 15  | 9   |
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APPLICANT: bomos Milne Edwards, Jean Baptiste
APPLICANT: Howeveletet, Lydio
APPLICANT: Jobert, Severih
TITER OF INVESTIGE DIRECTH BOMAN COMAS BESCOTHS FORBITALD SECRETES TREATHER
FILE PEFEMENTS. 28.083.RDG
                                                                                         1700 GEOGRAPH HAATH TECHTGLOST IGGAATATH CHTCATGAATH GAAGGA GACHCLITCA
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CURKENI FILING BALE, 2000 12,07
FIG. & ATTITATI & ROWHER, 08,52,159,629
FRIOR FILING DATE, 1095-12-08
FA. & ATTITATI & ROWHER, 10, 10,197,170
PRIOR FILING DATE, 2000-03-06
RATHERS OF SED D. RES. 482
SOFTWARE: Patent.pm
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Patent No. 0820020102604Al
GLNIKAL INPORMATION:
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US-09-731-872-214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 6
US+09-731-872-214
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LENGTH: 776
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RESULT 8
US-09-919-497-17
NAME/KFY DESCRET
LUCATION: 4800, 4805, 4813, 4816-4817, 4820-4823, 4831, 4832, 4831, 4837,
LOCATION: 4839-4840, 4845-4850
OTHER INFORMATION: a, t, C, G, G, OLIDER
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Best Local Similarity 60.1%, Pied. No. 6.9e-107;
Matches 917; Conservative 0; Mismatches 482; Indels 127; Gaps
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Publication No. 3929026192678Ai
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Pred. No. 4.96-81;
3: Mismatches 506; Indeis 117; Gaps
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IIILE OF INVENTION, PROGRESTIC CLASSIFICATION OF EMPORITION, CANCER PILE REFERENCE, BOROL/7228
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CURRENT AFFLANT: N NUMBER: 05/05/980,107
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SOFTWARE PARTOLIN VOT. 2.1
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APPLICANT: V-kley, Joseph G.
APPLICANT: Schert, Uwe
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| Ω.   | 373                         | 4 9   | in 5                       | 619<br>553  | N 14   | 8  |  | 859   | 919                        | 679    | 852             | 1039                      | 1099   | 1159   | 5 8  |   | m w   | 20 CI   | 5  |
|--|-----------------------------|---|----------------------------|---|--|--|--|---|----------------------------|--------|-----------------|---------------------------|--|--|--|---|---|---|--|
| 131;   | NG FGGG                     | ATGCIG<br>     <br>TGTTG                            | AGGAA<br>                  | AAATT   | I IAIC<br>   | CTGGA<br> <br> -<br> -   | TTCCA<br>    <br> GCCC                 | CCTGC<br>   | racer<br>  II<br>  CC-     | rggta  | 1               | AGCGC<br>1.)<br>AGGC      | AGAA   | GACG   |  |   |   | 1 - 5<br>1 - 5<br>1 - 5                               | 0  |
| 9th 2,<br>1s 1   | 156507<br>                  | TAAICA<br>    <br>                                  | CAGCCA<br>                 | COCCAA<br>CASSAA  | \$40010<br>  | AAAATA<br>      <br>NGAAAA                                     | TTGTGTCTGTTGGAATTATTCTT<br>            | TCTTA<br>   | 000000<br>                 | GCATG  | 1               | CACCCAC                   | IGGAGI   | CTCCCC<br>         <br>  TCACA                                 | CCITCO<br>11 11<br>301600                                  | PATTIC<br>  | TTCTA   | ATCCCTC<br>    <br> STCCTC                            | GICCL  |
| . Len<br>Inde  | CCATCA<br>CCATCA            | TTITA   | AAAAAA<br>   <br>CAAGT     | ATGGG   | AAGCTA<br>TITT   | TGAAGA<br>        <br>GGAGGA                                   | 1GGAA1<br>LL<br>CACCA1                 | ATTITO<br>11 11   | ACCCTE<br>TITI<br>GCCTG    | FCCAAT | 1               | SGATTA<br>   <br>  SAACAA | GACAG<br>   <br>  GTC  | NTICAA<br>           <br>SCTCAA                                | GAGGT(<br>       <br> GAGGT(                               | TCAAA<br>   | CTAACC<br>         CTCACC                                   | TTAGACAT<br>       <br>TTTGACG                        | COCATI   |
| DB 10<br>-81;<br>50e;  | TAATO                       | CATACT<br>     <br>TATCCT                           | 1 F1 AT7                   | AITTGC  | AATGTC   | BGGACT<br> <br>  | TCTCT<br>HILLI<br>TCIGL                | AGTGG   | CARATE                     | ACGCT  | 1               | AFGALC<br>                | CITCAL<br>H H CITCAC   | H TGTA   | SAGGGI<br>I I I I I<br>SAGGGG                              | ACGGTG<br> <br> <br>  | GTTAC   | ATACA<br>   | CTGTG  |
| 7.4;<br>4.9e<br>tches  | CTCAG                       | AGGGGT<br>    <br>3GGCAT                            | FCACCT<br>FILL<br>SCACCT   | AAAGGC<br> - <br> CCTGG                                     | GSAGC<br>LTTT<br>SCAGC                                     | TTCATO   | TTTGT(<br>     <br>                    | TATACC  | AAATTO<br>                 | AACAAC |                 | AACIIO<br>   <br> -cccc   | SUCTUT<br>STOCAG   | AAAIAC<br>  HII<br>NOCIAC                                      | 3TATGO<br>         <br>                                    | NIGCAA.<br>      <br>NIGCAG                                     | TCTTT   | AAGTG:<br>AGGTG                                       | CACAAA   |
| 18.0%: Score 327.4; DB 10; Length 2431; Sal Similarity 55.5%; Pred. No. 4.9e-81; 37.8; Conservative V. Masmatches Suc; indels 117; G | ATTTAA<br>H H H             | ATOCIGGGCTIGTOCLAIGCCAIGGCCTACACACAGGGGTCAIACTT<br> | TCAG1                      | GGAGGTCTTTGALFLATGAAAATTAGGAGAAAGGATTTGGATGOOGGCAAAAATT<br> | GOAGCTTTGTTLOCATIACAALGCASAACATIGSAGGAATGTCAAGCTACOLOT<br> | TAAATATSAACIAGOIGAAGIAATCAGAGCATTGATGGGACTTGAAGAAAATACTGGA<br> | GAATGGTACCTCAATGGCAACTACCTCATCATATT [1 | CTTFOGCTCCTTAAAATTTAGGTTATCTFGGTTACCAGTGGATTTFCTCTTACCTGC | IACAAS<br>IIIII<br>IACAAA  | FCATIC |                 | 341616                    | 147 AATTOTOCAGGOTTGGATGATAACOAGGGCLOCICICICALGACAGIGGAGTAGAA 109<br> | PAROCTORTAGTORIORORAGIGIGAROCCARAIRO: ITGIATICAROTOCOGGAGG<br> | GCCIATGCAATTCCIATGCTAGTATTGCTTTTGTATGCAGGGGGGGGGCTTGCG<br> | TACASTGAASTIAAASALSALCASSGAGAAAAARGGAAACGGIGTGAAATATTTCCATG<br> | ACSAGGATGCTIGICATGIACCIGCLIGCCGCCCCTCTTGGTTACCTAACCETCT<br> | SAAGTEGAOGATGAATTCATGGGTACAGCAAGTAAGTTTTCATTCATTT<br> | CTCATGGTTEGGCTGGCAGTTGTGGGCAGTAACACAAAACTGTGGCCATTGTCGTCTT |
| Scour  | ICTICA<br>                  | ATGGCC<br>  | STGTAL                     | AAATTA<br> <br> -<br> -<br> -                               | ALCCAS<br>         <br>  conc                              | FAATC<br>       <br>FICATA                                     | ACCTC<br> -  - <br> ACCTC              | GT1AT   | TCALL<br>  II<br>  TALC    | ATCTG  | 1 1 1 1 1 1 1 1 | 31101                     | ACCAS.<br>TITI<br>TGAAGO   | AGTGTG<br> -<br> CTGGA   | FATTIG<br>    <br> CIICG                                   | CCGGA<br>II II<br>CCAAGA  | 00110<br>   | MIGGUI<br>    <br> CACCIL                             | TGTCG  |
| 18.0%<br>55.5%   | SEAAIG<br>       <br> CCAIG | ATGCC<br>   | IALCA<br>I II<br>IOTCO     | ATGAA<br>     <br>  SAGG                                    | [1 ACA/<br>  1   1<br>  2A-33                              | CIGAAG<br> <br> <br> CACTTC                                    | GCAACI<br>       <br>                  | ATTTAG<br>     <br> AGCTTG                                | 37,67,83<br>               | PTGGAA |                 | TICAGA                    | VI SANA<br>VGATCG  | TCACA<br>     <br>  AGOOL                                      | CCTAG  | 106514<br>  | GIACCI<br>     <br> GIACTI                                  | ACTICA<br>11 11<br>CCROCA                             | AGTOCT   |
| ity<br>sqrvaf  | CATTC                       | TGTGCJ<br>        IT<br>TGGCCT                      | CANTAL<br>   <br>     <br> | IGALLI<br>I<br>I FGCCI                                      | 11.00A   | AACTAC<br>      <br>AGCTGC                                     | CAATG                                  | TAAAA.<br>Grage,  | TGTTA<br>   <br>CCTAA      | CAGIG  | 1               | CAACLA                    | 7551777<br>  | TAGTGA<br> <br>  | PCCIAT<br>   | IAAAGA<br>III III<br>IAAGGA                                     | GTCAT   | GAATT<br>    <br> GAGCT                               | CIGGC  |
| imilar<br>, Sou  | CACTI<br>    <br> SACAT     | ragact<br>     <br> gagac                           | TGTGS<br>111 = 1           | STOTE   | TITIG  | ATATGI<br>    <br>GTCTGI                                       | GTACCI<br>     <br> SIACAI             | GCTCC1  | STTTT<br>      <br>STTCTI  | 3GATCA |                 | NCCCAA                    | racabs<br>Saggea   | AGCTCA<br>      <br>   | GCAAT  | GAACT<br>11 11<br>GAGCIN  | ATGCTC<br>    <br> ATGTAC                                   | GAAGAS<br> - <br>GAGIĞG                               | GITCG  |
| datch<br>cals  |                             | ATCC1<br>HILLI<br>ATCC1                             | CTTGC<br>11<br>ACAGG       | GGAGG<br>      <br>GTGGG                                    | 00700<br>  | ATTAA<br>+1  - <br>ATCAA                                       | GAATG<br>      CACTG                   | CTITO<br>  <br> -<br> <br>  CIGGC                         | ATGCT'<br>      <br> ATGGT | GITIT  | 1               | ATCTT/                    | AATTTT<br> - <br>AACTTC  | TATGAA   | GCTAT<br>11 11<br>SCATAC                                   | FACAGE<br>H I I<br>FATACE                                       | NCGAGG<br>   <br>  SCTGTC                                   | SAAGTT<br>   <br>GGGGTG                               | TCATO  |
| uery Mai<br>est Loca<br>atches   | 380                         | 44C<br>374  | 434                        | 560   | 620<br>554   | 614  | 740                                    | 800   | 860                        | 920    | 808             | ଜ୍ଞ ଅ<br>ଅଧିକ             | 1040   | 1100 -   | 1160 (<br>983 (  | 1226  | 1280 /<br>1103 c  | 53.   | 1400 C   |
| B<br>Mu  | S S                         | oy.   | C:                         | Q7.   | Qy.  | Oy<br>Db   | O.y<br>D.b                             | QY<br>Db  | Oy<br>Dp                   | 5 3    | 2               | 0y.                       | cy<br>Dp   | Qy<br>Db   | Qy<br>Db   | ÚŢ.<br>Db   | Çy<br>DB  | 0%<br>0p  | ΔÃ   |

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GENERAL INFORMATION G.

APPLICANT: Penn, Sharron G.

TITLE G. FUNCTION FOR FLANCE AND G. STANDELE EX A. HOLLIO, WILL FROMENTAL TOTAL G. STANDELE EX A. HOLLIO, STANDELE EX A. HOLLIO, STANDELE EX A. HOLLIO, STANDELE G. STAN
                                                                                                     1520 CATITECTICATIVICAGCIGIGCHTAITGGACH FAAIAAIGTICLAGHEALCCTLGIGGAA 1879
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PRIOR PLING DATE, 2001-01-80
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: GENERAL INFGEMATION:
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100.0%; Prod. Mo. 2.28 66,
(Po. 9) Minmatcher 0: Tebels 0;
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                                                                    PRIOR APPLICATION WINNERS 36 30
PRIOR APPLICATION WINNERS US 29
PRIOR FILLIN LAID: 2801 31 29
PRIOR FILLIN SATIS 381 31 29
SATWARE ALMORAX Sequence 5551 in Entire sets. 1.1
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Matches 277; Conservative 0; Mismatches
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PRIOR FILLING DATE: 2000 69-21
PRIOR APPLICATION NUMBER: 93-697608,408
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Patent No. US2004004191A1
GENERAL INIVERALL W.
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                                                                                                                                                                                                                                                                                                                                                                                                                                 PROANTSM: Hemo sapiens
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APPLICANT: BARE, DAVID E.
APPLICANT: BARE, DAVID E.
APPLICANT: Chen, Wenshaug
TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICHARY
TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICHARY
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940 AWATCH GRANT YAACAA VACHII DOCAATGAATGAATGAATTATA WOO AWACH CLOA 1900
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MUMBER OF SEG-TH-MOS: 49117
SOFTWARE: Amesmax Sequence Listing Regime vers. 1.1
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PRIOR PELLING DATE: 2000-02-04

PRIOR AFFLICATION NUMBER: US 66/207,456

PRIOR APPLICATION NUMBER: US 69/207,456

PRIOR APPLICATION NUMBER: US 09/632,366

PRIOR APPLICATION NUMBER: US 09/632,366

PRIOR APPLICATION NUMBER: US 66/236,359

PRIOR APPLICATION NUMBER: US 66/236,359

PRIOR APPLICATION NUMBER: PCT/US01/00666

PRIOR APPLICATION NUMBER: PCT/US01/00666

PRIOR PILLING DATE: 2000-09-27

PRIOR APPLICATION NUMBER: PCT/US01/00667

PRIOR PILLING DATE: 2001-01-30

PRIOR FILLING DATE: 2001-01-30
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CURRENT APPLICATION NUMBER: US/09/864,761
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2001-01-30
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Patent No. US20020048763A1
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APPLICANT: Penn, Sharron G.
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PRIOR FILING DATE:
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ORGANISM: Homo sapiens

228 - 7875 L 24

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APPLICANT: Table, Neighing APPLICANT: Table, Neighing APPLICANT: Table, Neighing APPLICANT: Table, Neighing APPLICANT: Byatt, John C. APPLICANT: Mathiagan, Nagappan TITLE OF INVENTION: NUCLEIC ATTD AND OTHER MOLECULES ASSOCIATED WITH LACIATION AND TITLE OF INVENTION: NUCLEIC AND FAT DEPOSITION CURRENT APPLICANTON NOMBER: 35.201.00.26 CURRENT APPLICANTON NUMBER: 35.201.10.26 CURRENT APPLICANTON NUMBER: 35.201.10.26 FRICH APPLICANTON NUMBER: 35.201.10.26 FRICH APPLICANTON NUMBER: 35.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10.201.10
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Hest Local Similarity 100.0%; Pred No. 9.59
Consequation Q; Mismatcher
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> Patent No. US20020137160A1
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APPLICANT: Warred, Westby C.
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ALELTANT: Jones, Robert
APPLICANT: Jones, Robert
APPLICANT: Harlocker, Soan L.
APPLICANT: PURE REPORTER: AND METHODS FOR THE THEFALL
FIFTH OF INVENTER: AND PLANESHE OF CARGINE CANCER
FILE REPERBINE: ALS 18121.447
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CUBRING FILLNE DAYE: cold of 29
NUMBER of SEC IN MEST 1091.2
SOFTWARE: FLSTSE; for Windows Version 4.0
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US 12, 867-754-722
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## SUMMARIES

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|----------|--------------|-----------|----------------|------------|----------------------|-----------------------|
| ž        | Score        | Match     | Match Length 1 | <b>£</b>   | ID                   | Description           |
| -        | 62.4         |           | 8135           | -          | ES 08 232 463-34     | 130V   15   2000 1000 |
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| x        | 36           | 2.0       | 2991           | 4          | US-09-355-700-48     | Sequence 48, Appl     |
| ۴,       | .5.<br>8.5.8 | 1)<br>(1) | \$0.6<br>6     | 77         | US 00 824 824 1      |                       |
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| 11       | ജ.<br>ഗൂ÷    | 5.0       | 1500           | 4          | 1-729-86+60-80       |                       |
| ~7       | ر<br>ال      | 51.<br>C) | 14654          | ~          | 36 SG موا دئے اہر    | 10.                   |
|          | A. 7. 4      | 1.5       | 816            |            | -05-134-0            | Sequence 1380, Ap     |
| 14       | \$4.4        | 6.1       | 16.48          | ₹          | 14.9                 | . 4                   |
| <u>-</u> | ***          | 6.1       | 3685           | ~ <b>*</b> | 08 09 11F 325A E     |                       |
| 16       | 43.4         | r.<br>-   | 1870           | ~          | US-08-359-705B-3     | m.                    |
| 17       | 51.4         | ×         | 1870           | ç a        | 0S 08 180 840A 3     | SAMELINE 3, APPLI     |
| æ        | 44.4         | . 1       | 1870           | 7          | US-08-457-880A-4     | ر.<br>زما             |
| 5.       | * * *        | 7.8       | 1870           | ~;         | US-08-444-622A-4     | Sequence 3, Appli     |
| ○<br>~   | 43.4         | α.<br>    | 1870           | 40         | 05-08-942-562-3      | ~`                    |
| 7        | 31.4         | 1.8       | 1870           | or.        | US:09-156-924-3      | m                     |
| 77       | 11.4         | x .       | 4040           | _          | US-08-286-305A-6     | 9                     |
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| ÇV<br>ÇV | 43.4         | 1.8       | 3154           | :/1        | US 08 459 - 7058 - 1 | Sequence 1, Appli     |
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| September 1, April 1, September 2, April 1, September 2, April 1, September 3, April 1, A |  |   |  |  |
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| 29   | CESULT 1  AS 108-242-464-1476  Sequence 14, Application hs/08232463  Extern No. 1620421  ABBLICANI DEPARTE F.  APPLICANI SPECIFILINGER, F.  APPLICANI SPECIFICANI F. B.  APPLICANI SPECIFICANI F.  A | • | FIGURE AND SATE AS A SECOND SE | TELICIB ARE, (20.) 8 (4-9 que l'ELENA). (20.) 8 (4-9 que l'ELENA). (20.) 8 (4-9 que l'ELENA). POSTITO EN L'ELENA L'ELE |

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                                                                                                                                                                                                                                          4 FEODAARIAAGEOAGGAAAGCEGGAAAGCEGAGAGAATAATTAAGAAGAAGTGFEC 64
Best Local Similarity 1.6%; Prod. No. 1.20-98;
Matches 6; Conservative 232, Mismatches 138, indels
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CURRENT APPLICATION DAIA:
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COMPUTER: THM PC COMPATIBLY
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ATTOPREY/A DATE TRY EXACT K.
NAME: BENT, SLAPHEN A.
REGISTRALEN NOMBER: 29.7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8.0%; Score 55.2; DB D; Longth 7218;
Bast David Cimilarit, 4.5%; Prod. No. 2c 96;
Matches 18: Conservative 221; Mismatches 159; Indels 0: Gaps
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AUDRESSEE, Richard F. Trecartin
STREET: 4400 Embarcadero Conter, Suite 3400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CLASSIFICATION | 800 | 102 005,484,101B | 102 005,484,101B | 103 005,484,101B | 104 005,484,184,184 | 104 005,484,184 | 104 005,484,184 | 104 005,484,184 | 104 005,484,184 | 104 005,484,184 | 104 005,484,184 | 104 005,484,184 | 104 005,484,184 | 104 005,484,184 | 104 005,484,184 | 104 005,484 | 104 005,484 | 104 005,484 | 104 005,484 | 104 005,484 | 104 005,484 | 104 005,484 | 104 005,484 | 104 005,484 | 104 005,484 | 104 005,484 | 104 005,484 | 104 005,484 | 104 005,484 | 104 005,484 | 104 005,484 | 104 005,484 | 104 005,484 | 104 005,484 | 104 005,484 | 104 005,484 | 104 005,484 | 104 005,484 | 104 005,484 | 104 005,484 | 104 005,484 | 104 005,484 | 104 005,484 | 104 005,484 | 104 005,484 | 104 005,484 | 104 005,484 | 104 005,484 | 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Patent No. 5824868
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7218 base pairs
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1431 TAACACAAAGIGIGGCCCALIGICCICLICCCAALFCGTACATCAGATCACAGTTTAT 1490
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Best Local Similarity 54.4%; Pred. No. 0.098;
Matches 80; Conservati v. 2; Mismatches 07; Indexs 0; daps
                                                                                                                                                                                                                                                                                                                                                          Query Match 2.2%, Scote 39.8; DB 1; Length 6202;
Best Local Similarity 54.4%, Pred. No. 0.098;
Matches 80; Conservative 3; Mismatches 07, Indexs 03
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Sequence 41. Application US; UR/145240

GENERAL INFORMATION:
APPLICANT: Chang, Carpor
APPLICANT: Chang, Carpor
APPLICANT: Chang, Carpor
APPLICANT: Receptor, Anthony B
TITLE OF INVENTION: PLANTS HAVING MODIFIED RESPONSE TO FTHYLENE
FILE REFERENCE: a = 57515 - 4
CURRENT FILING DATE: 1996-09-16
NUMBER OF SEO ID NOS: 56
           ATTORNEY AGENI INPORMATION:
NAME: TrearLin, Richard F.
PEGISTEATION NUMBER: 31 801
REFERENCE/INCKET NUMBER: A-57515-2/RFT
TELECOMMUNICATION INFORMATION:
TELEPRANCE (415) 781-1989
INFORMATION FOR SEQ 10 NO:
SEQUENCE CHARACTERISICS:
LENGIH: 5202 base pairs
TYPE: INCICE ocid
STRANDFINESS: acid
                                                                                                                                                                                                                                                                          . NAME/KEY: CDS
: LOCATION: jeln(3525...*288, 5472...5926)
US-08-484:1018-4)
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: LOCATION: (1522)..(5288)
: HAME/KEYL CLS
: LOCATION: (5372)..(5926)
: US-08-714-524p-41
CLASSIFICATION: 800
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US-08-714-524D-41
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                                                                                                                                                                                                                                                                   FEATURE:
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1505 TTCACCI COATACCGACATITICOTGAIL A AGGI GIGGILALIGIAN (LAALAALGAIGE) 1564
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Best Local Similarity 47.4%; Pred. No. 0.74;
Matches 110: Cresengijo O: Mismalches 122: Indels 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Young, Michael W.
APPLICANT: School, Amilasic B.
APPLICANT: School, Amilasic B.
APPLICANT: Byteco Jefficy L.
APPLICANT: B
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1551 TIAATAAIGITGIGGICAIGCIIGIGG 1577
                                                                                                                3488 AGTATAATGGACTAAGGATTIJTFITC 3514
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20-MAR-1996
N: 514
(MPC)
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FILLING TOARS. 20-MARTERS.
FILLING TOARS. 214
ATTORNIT AGAINE THORSMAND.
NABL. JOAKSON ESG. DAVIG A.
REGISTRATION NUMBER. 26,742
TOTORNIT AND NUMBER. 26,742
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Patent No. 985841
GENERAL INFORMATION:
APPLACANT: Young, Michael W.
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THEEX: 73 4521
INFORMATION FOR SEQ ID NO. 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 57.2 base pairs
TYPE: nucleic acid
STRANDELNESS: double
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COUNTRY: US,
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US-08-619 198 8/c
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US-08-795-440-48/c
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Rest Local Similarity 47.4%; Fr d. No. 5.74.
Matches IRE: Conservative 0/ Mismatches IRE: Index 0/ Caps
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DESORIPTION: The CDNA Sespender Wherein East position 1975
                                                                                                                                                      APPLICANT: Schal, Amila
APPLICANT: Schal, Amila
APPLICANT: Price, John Co.
APPLICANT: With Myors, Michael
TILLE OF INVENTION: WITH CIRCANIAN RIPTHMS
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CURRENT APPLICATION DAIA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDIUM TYPE: Ploppy disk
COMPUTER: THM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/HS POS
                                                             Sequence 1, Application 08/08619198
Patent No. 5885831
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411 Hackensack Avenue
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REGISIRATION NUMBER: 26,742
EBHERNY TOTAL WHITE PROMISES
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ALEGENTY, ACENT TRESHMATERS.
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                                                                                                                                                                                                                                                                                                                                                                                                           NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
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EMESS: 4-aED
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                                                                                                                                 GENERAL INCREACION:
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RESULT 6
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APPLICANT: Alitalo, Kari
APPLICANT: JOHKOV, Vladimir
TITLE PE INVENTION: Vascular Endothelial Growth Factor of (VESF of)
TITLE OF INVENTION: Protein and Gene, Mutants Thereof, and Eses Thereof
NUMBER OF SEQUENCES: 57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     235 AGATAGCTAGATGGGGATAGGAAATTGAGAAAGGGGA AATGAGTAGTGAATTGTTAA 234
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19.0%; Pred. No. 0.94;
vo. 0; Mismatches 100; Indels 0; daps
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                                                                                                                                                                                                                                                                                                                                                                                             ABINESSEE, Marchall, S'OOI, Gristein, Murray & Norun
STREET: 6:00 Sears Tower, 2:3 South Wacker Drive
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1P: 60608-6402
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COMPUTER: IBM PC compatible
PERATIMO SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE: 28 JOH-1996
PRIOR APPLICATION DATA:
ARE DELICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ALTOCATION NOBBIN. 09,585,895
FILING LAKE: 12-4AN-1996
FRIOR TRICKANTION WATER
ATTEMOVAL OF RUBBER. 06,510,143
FILING TATE: 01-AUG 1995
ARD A RUBBER OF AUGUST OF AUGU
. Feptimes 48, April at the max/08795440 ; Patent No. $139071
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REMISTRATIFN NUMBER: 38,153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FELLERALL : "CALCE HURITE, DETECTION INFORMATION: TELEPHONE, 312/474-6300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            . Bellivial Time LNA (genomic)
US-08-795-130-18
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Best Local Similarity 49.0%;
Matches 96; Conservative
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AND TA OF THEORY 1996
FILLING DATE: 01-AUG 1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE: 14-FEB-1996
PRIČE APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2991 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT APPLICATION DATA:
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STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                          NUMBER OF SEQUENCES: 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM (YPE: Floppy)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STAFE: Illinois
                                                                                       CENERAL INFORMATION:
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STREET: 630.
"V: Chirado
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235 ATATATATATATAKTAKTAKTAKAMAATITAKWAANGAAMAKAKIMAKTAKITAKTATATA 254
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| THE THE HELLELLE FOR THE THE THE THE THE THE THE THE THE TOTAL SAARAAAAA GOGO 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003) 2003 (2003)
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STREET: Anon Hell Atlantic lower, 1717 Arch Stre
CITY: thiladelphia
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COMPUTER: THM Compatible
OFFRAING SYSTEM: LOS
SOFFWARF: Fist STYL LOS
SOFFWARF: Fist STYL LOS
CURKENT APPLICATION DATA:
APPLICATION DATA:
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APPLICATION NYMPPS ($1239,581
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Sequence 1, Application US/09024024

Patent Ns. 62289-8

GENERAL INFORMATION:
APPLICANT: Lonetto, Michael A.
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ATT PRIVE ACCUSATION:
NAME: FOLK, SLEGHEN: 36,795
PEGISTRALICH NUMBER: 36,795
PEFERNEZ/YOKET NUMBER: GMSOG
TELECOMMUNICATION INFORMATION:
PET EPHINE: 215-991-218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Lonetto, Michael A. TITLE G. FUVENITOR: 11cD)
NUMBER OF SEQUENCES: 4
CORREST MURROR ALMESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    355 ACATIATICALITAN 270
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        202 CAMANAGARICALGCA 187
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Best Local Similarity
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CLASSIFICATION:
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uS-09-024-024-1
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262 STOOTALACHIJAACIGASAAAALGCLSGSAAAAA. LIHIH HIHIHHH H
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ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
SIRBELS: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Cuery Match
Best Local Similarity 49.0%; Pred. No. 0.94;
Matches 96; Conservative 5; Mismatches 100; Indess
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FILING DATE: AS-JON-1996
FILING DATE: 14-FEB-1996
APPLICATION NUMBER: US/50,135
FILING DATE: 1-S-JAN-1996
APPLICATION NUMBER: US/50,133
APPLICATION NUMBER: US/51,133
APPLICATION NUMBER: US/510,133
APLICATION NUMBER: US/510,133
TELECOMMUNICATION NUMBER: US/510,133
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APPLICATION NUMBER: US/00/7355,700
FILING DATE: 05-No. 6161946-1999
CLASSIFICATION: <urboxemes controlled to the control of the c
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MEDIUM TYPE: Eloppy disk
COMPUTER: IBM PC comparible
OPERATING SYSTEM: PC-DOS/A8-DOS
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MCLECULE TYPE: DNA (GPONILG)
SEQUENCE DESCRIPTION: SEQ 1D NO: 48:
                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 48, Application US/09355700 Patent No. 6361546 GENERAL INFORMATION:
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SEQUENCE CHARACLERISTICS:
                                                                                                                 215 AGAZTALGCI SALGAA 378
1 | | | | | | | 1
192 GAAAAACAALGAIGA 187
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U.S. 38, 251
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Goodman, Howard M.
APPLICANT: Wang, Ming Li
FILLE OF INVENTION: GRANSTELLICH FATTER RESEARCH SEED, STREET SEED, STREET, STREET SEED, STREET SEED, STRE
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Pitent No. 6248937
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US-09-300-672-1
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APPLICANT: Charles Kunsch
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NOMBER OF CROBENCES: 391
TE64 A FISCAALT CON A LOCUTAGITAT TOO TATOONAGO TO AGOING CONTOURANTA TO 22 3
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                                                                                                                                                                                                                                                                                                                                             1224 OTGAACHTAAAGATGGGLOGGGAAAAAAGGAAAAAGGGGTGGAATAFITGAAT 1278
                                                                                                                                                                                                                                                                                                                                                                                                       2.0%: Score 45.8; DB 4; Length 14654;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1642 TCCAGCAGTTTTTTTATCTTAAACTTGTCAAGAAAGAAACTTTTAGGT 1688
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 667 TACHGEONNITATION TO THE FILL TO THE FORM OF TACHGEON TACHGEORY (FILL THE FORM OF TACHGEORY TO THE FORM OF TACHGEORY T
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MDICH IVEL, Diskette, 2.50 inch, 1.4Mb storage COMPUTER: HP Vectra 486/43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human Genome Sciences, Inc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MSPOS version 6.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: 05,708,961,527
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE/TESTEN NUMBER: PB440P1
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 106, Application US/08961527
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STREET: 9410 Key West Avenue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           36, 173
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Thanka, (30) 409-8512
INFORMATION FOR SEQ ID NO: 106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEGUENCE CHARATIERISTICS:
LENGTH: 14654 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME: Brookes, A. Anders
REGISTRALION NUMBER: 36,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ALLORNEY/ACENT INPURHAFION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                85; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Text
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CHREAL TREAMALTONE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
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US-09-134-001C 1780

1104 AASCHATA I DATOACAANTUTOAA OO MAARACH ITOTATTIAALTO OO GOACGGOOT 1163

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.e. 69,843,514
                            FARTLER FILLING INTER 1997-05-23
FARTLER FILLING INTER 1997-05-23
FARTLER GAYGATH MOMBER, GAYGAT-503
FARTLER FILLING INTERF, 1997 05-23
FARTLER ADPLIANTEN NUMBER, GAYGAT-592
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          7987-08-22
1997-08-22
Tene. (926,372
                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER - 60/2047,584 FILLING DALE: 1997-05-23 APPLICATION NUMBER: 60/2047,500
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PARTIES FILLING FACE, 1957 05 23
EARLIER APPLICATION WOMBER, 60/047,601
FARALIER FILLING DATE, 1997-05-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                      7047,500
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1997-04-11
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EARLIER APELTATION NUMBER: 66/05,886
FARLIER FILING DATE: 1997-08-22
FARLIER ASS 02-22
FARLIER
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FAMILIER FILLING DATE: 1947-04-11
FAMILIER FILLING DATE: 1947-04-11
FAMILIER FILLING THE BYTHER GOODS
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PARTIER APPY CATTON BYHBES: 60:0
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PAPLIER ADDITIONALISM REFERE FELTING CASE; 08-22
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FAPITEP ADDITIONATION WINNERS (44.4
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FAWLIEW APPLICATION NUMBER: 602
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FAPLIER APPLICATION NUMBER 600
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FARLIER AFFLICATE, NOMBER:
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APOTIVATION BUNDER
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INC DAIR: 1997-0
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                                                                      APPLICANT: Lynd Dowcette-Stamm et al
TITLE OF INVENTION. NUCLEIC ANID ANIN AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
TITLE OF INVENTION. BEIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS
TITLE OF INVENTION: BEIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS
CUFFERT AFELLATION UNMERE. US/US/LA4/US/LC
CUFFERT AFELLATION UNMERE. US/US/LA4/US/LC
PRIOR APPLICATION UNMERE. US/OS/LA5/P
PRIOR FILING DATE. 1997-11-08
PRIOR FILING DATE. 1997-11-08
PRIOR FILING DATE. 1997-11-08
PRIOR FILING DATE. 1997-08-14
NUMBER OF SEQ. TO NOS: EC74
FROM THE TOWN TOWN UNDER 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   358 AICTTIATAGTGCAGGAAGACTTACCTTATGATGCTGATTTAGATATTAGATAT 414
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Overy Match 1.9%; Score 35.4; DB 4; Length 816; Best Local Similarity 56.4%; Pred. No. 0.67; Matches 66; Spiscryative 0; Mismatches 51; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ldo muman secreted proteins
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1998-03-06
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## SUMMARIES

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New membrane transporter protein (reterred to as 57256 and 58289), useful for diagnosing, freating disorders e.g. Alzheimer's disease mania, obsessive-compulsive disorder, anxiet; and diabetes -Claim 1: Fig 4: 141pp; English. [MILL ) MILLINNIUM PHANM INC 13-MAY-2001; 2007W--0816018 Darker June, Darkers Jackson 117+80+80-7007 P-PSDB; ARB08219. \$7.2001/30146\_A2 23-N:W-2001 untis RAJ: 

dysplasin, hepath disorders, in hismotopoliticand/or mysbopinilleratio, disorder, hormonal disorders, and immune disorders. The polypeptices and antianginal, antiarrhythmic, cytostatic, antitumour, and immunostimulant activity. We publish idea and polynochemical have a see in gene therapy, and act as modulators of the protein or nucleic acid, and as invention relates to movel isolated membrane transporter protein (402) polymoptides. (referred to as 57256 and 58289). The polypoptides of the linvention have mearreple, neuroperatories, and parkinsoriem, and removal sant, neuropepie, and increase, and immunic, transpirities, and increase and immunications, overgions. polynucleotides, and homologues of the polynucleotides and antibodies, transcription and/or translation inklb/turs. But, the pulypoptide and polynucleotide are useful as modulatina agents in regulating cellular are useful for screening assays, predictive medicine (e.g. diagnostic assays, prognostic assays, monitoring clinical trials, and (CNS) disorders, autoimmune function disorders, learning or memory disorders, bipolar affective neurological disorders, cardiac related disorders, cancer, tumour angiogenesis and metastasis, skeletal process e.g. cellular proliferation, growth, differentiation, or migration, which is useful in treatment and diagnosis of transporter associated disorders. These disorders include central nervous system pharmacodenetics) and treatment (e.g. therapeutic and prophylactic). The sequence encodes human membrane transporter protein 58289. The

Sequence 3767 BP: 1157 A: 713 C: 690 G: 1207 1: 0 other;

83 GAAGAAGCI FAAGGTGAAGHHACAGTATATTATATATGAAGGGGT I GIGTGFGGAC 142 14.3. ANDARANTATION INTERNATIONAL CONTRACTOR SANDAR TO TANGENT COMMENCE 202 323 ACAAATGBALITTI GAAGBAABAAAGCGGGGTAALTATGC LGATGAACTGCCACGGGA 382 0; Gaps 23 GCCIGCACAGGALTGAAIAAAFAATTAAGAAGTGFIGIGCGAAAATGAACAGAGTG 82 244 CALCALGAGAGAGAGAGEGERAAAGEGGGGGAGATAGTIAGAGAGAGAGAAATEGA 198 GATGATGAGAGGAGGAGAGAAGAGTGGTGTGTAGTAGGTAGATAGAATTGA 98.18: Score 1787.2; DB 24; Length 3767; 99-68: Prod No 0: 8; Indels 0; Mismatches Matches 1792; Conservative Query Match Bost Local Similarity Š <u>9</u> 3 5 Š = ŝ

10 4 3 1162 1398 ADMITTER THE HELLER HELT HELLER HELLER HELLER HELLER HELLER HELLER HELLER HELLER HELLER 1043 CCTGCAGGGCTGGATGAGAACCAGGCCAAGGGCTCJGTFCATGACAGTGGAGTAGAATAF 1102 1158 TATGCAATTCCTATCCTAGTTTGCTTTTGTGTGCCGCACCTGAAATCCTTCCATCTAC 1217 128 - GGGATGOTPGTGATGTACCTGCTTGGOGCCFCTTTGGGTTACCTAACCTFCTATGGAGAA 1442 1343 GLIGAAGATGAATTACTTGATGCCTAGAGAAAGTGTATAGAGTAGATTAGAGATCCTTCTLCTC 1402 14.03. AT STELOGY POSTACTEC FEGINGCAGTAACACAAACHTFINCOTTELOS TA 146.2 983 ITACHOAAAAGTGTGAGAGTTOTGATGTGAACTTGATGATGATTAGAGCAAGGAAGAAGAA 1042 1098 GAAGCTCATAGTGATGACAAGTGTGAACCCAAATACTTTGTATTCAACTCCGGGAGGCC 1157 1223 AGTGAACTTAAAGATGGGFCCGGGAGAAAATGCAAACGFFGTGAAATAFTFGCATCACF 1282 3.1.8 ACAZATOGA LTTTTGGGGAAAAAAAGGTGGGGAGA LTATOGTGATGAATAGCALGA GAA 3.7.7 383 ACCACTICGITTGGAAHGTCTTTAATTTTAAGCTGAGTAATGCATGATGAGGGAGTGAATT HELLIH HE 623 OCTIFICITI DICALTACAALGCAGAAAA1IGGAGCAAIGICAAGCFACCICITFADAII 682 113 7.5 803 TOGGGGGTTAAAAATTIAGGTTATCTTGGGTATAAGAAGGAGATTIGGGTTAAGGAGALG 862 FCGCTCCTTAAAAATITAGGITATCTIGGCTATACCAGTGGATTITCTCTIACCTGGAALG H97 -1 918 FIGGALGACAGIGITGGAAATCIGIACTICAAGAGACAGGITGCAATGGATGIGGGLAAFG 977 563 GGGIGTFIGALITATGAAAAATTAGGAGAAAAAGGCAFFTGGATGGGYGGGAAAAAAAATLGBA 622 TOTAL TORET SCANCENCE AND THE HEIGHT HILLIGHT HILLIGHT HEIGHT HE CAN THE STANDARD AND THE S 445 CTG-ACCTIGICCIALGCCIACGCCIACACAGGGGTCAFRATTITIA AAALCATGCTTT 503 GCB-FGGCAAFATFATCACTGTAFTCAGTTCAGCFFTTATFAAAAAAAAAGAAGGAAGGAAGGA 743 TGGTACTICAATGGCAACTACCTCATGATATTTGTGTCTGTTGGAATTATTCTTGCATTT 1103 GAAGCTCATAGTGATGACAAGTGTGTGAATACTTTGTATTCAACTGCGGGAGGG 1163 TAFGCAATIGCTAFCCTAGTATTGCTFTFGTATGCCACCCTGAGGTCTTTGCAFCTAG 1278 GGGAFGC11GFCA1GFAGCTGGCFTGCGGCCTGFTFGG1FACGTAAGCFFT-3AFGGAA THE REPORTED FOR THE PROPERTY OF THE PROPERTY 978 TTARCCAACACTCTGAGAGTTCTGATGTGAACTTCATGATGGATTACACCGAGGGAAT 5 ŝ άÓ 9 Ś ÷ Š 2 ā ౼ ò £ Š ä 5 ò <u>1</u> Ξ 37 3

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in more amedial at the rappers of ones, so Haomatopoietic stem (ell) immune system disorder; Macmatopoietic stem cell specific nucleic acid. (first outry) Lakemia netile Japanie Mus musculus. 19-JUN-2000 RESULT 2 

480g 4138122 2000/2001 - 1M65 (UYPR-) UMIV PRINCHTON. 21 ATL: 1249; 20 AUG 1955 UZ MAR 2100.

W/200011168 A2.

Lemischka I, Moore K; WPI; 2060 297655,20. Claim 10: Page 206: 255pp; English.

Hematopoietic stem sell signaling proteins modulatica replication and differentiation for treating immune system disorders and leukaemia The present sequence is that of a nucleic acid isolated from mouse primitive seem colls by netteds of the invention. It is an are specifically explained insolated norder avids (see ARCAGES 25513) that are specifically explained in beautopolicies seem its finish. That the encoded BG-specific proteins. The BGGs are especially primitive BGCs (BRSS) such as smalling end of else and foctal liver cells. The encoded proteins (see AAY79176-93) are just in a smalling end of else and foctal liver cells. The encoded proteins (see AAY79176-93) are just in a first end of else and foctal liver cells. The encoded proteins (see AAY79176-93) are just in a first end factors that modulate BST activity experiently differentiation. The invention provides a claimed method for replication. The invention provides a claimed method for a first end converted and a non-PHSC immune cell library and subtracting

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expression of TRICH.
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Tribontey CM, Yao Mi, Ramkumar J, Au-Young J, Lu Y, Tand-
Acimani Y, Brons CM, Griffin JA, Yang J, Sanjanwala Ms:
Reumann BE, Lee EM, Halalia A, Bandhi MR, Green BD, Khan
Kenreng F, Filter VS, Pellhamer JL, Eviles, en Kenrengy
Burford N, Ding L, Lu DAM, Hillman JE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human transporter and ion channel-19 (TRICH-19) GDNA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAD27272 standard; conA, 2074 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   01-JUN 2000, 2000US-200001P.
08-JUN-2000; 2000US-21058BP.
14. mg. 2000, 2000US-21058BP.
22-JUN-2000; 2000US-213747P.
29-TUN-2000, 2000US-215747F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          25-MAY-2001; 2001WO-US17065,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 26-MAY-2000; 2000US-208424P.
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P-PSDB; AAE16782.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO200192304-A2.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 4
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The polynucleotides may be used to detect and quantity gene expression in blopsied tissues in which TRICH expression may be correlated with a disease, to generate hybridization probos for mapping naturally occurring genomic sequence, and in drug screening. The present sequence is human polypeptides and their cDMA molecules. The nacieic acid and polypertide sequences are useful in the diagnosis, retainent, and provention of disorders associated with transport (akinesia, cystic fibrosis, Bell's palsy, amyotrophic lateral selerosis), neurological (Alcheimer's disease, amnesia, demedia); mascre (Gradiomyopathy, myocardits, Duchenne's museriar demedia); memoricaled (ALDS, Addisor, Statistics) asthma), cell proliferative disorders (careta, leukaemia, psoriassis); cardiac disease (andina, hypertension, or bradyarrythmia) and in the assessment of the effects of exceptions compounds on the expression of nucleic acid and amino acid sequences of transporters and ion channels. The invention relates to human transporters and ion channels (TRICH) TRICH-19 CDNA.

Sequence 2074 BP; 583 A; 421 C; 391 G; 575 E; 4 office; 2622828888888888**%**&

.`<u>`</u> 876 OTGEGGGAFFA WASAAAFGGAAAFA SEESESESEA GGGGGGGAAAFA 955 HEALIGH HEALIGH HEALIGH GAAAFA 955 HEALIGH 756 GCAACTAGCEGAFGAFATEFOTGEGGAATTATFGTTGCAGTFTGGTTGTTAAAA 815 276 IGMACAGIGAATTI OCTAATGAAGACACIGAAAGIGAGAAATTOTRIACAAATTIITI 335 116 TOSTAMANAN NA PITOPIANATIALPITON ON GANGACIA PERTENDAM SANTICI IITO 195 396 GAATGICTICATTIAAGCIGAGTAAIGGCAIGATGGGGAGIGGGATCGIGGGCITGICGI 455 579. GAATGECITCATTFAACCTGAGFAATGCCATCATGGGCAGFGGGAFCCTGGGGFFGTCCT. 638 456 AIGCCAIGGCCTACACAGGGGTCATACPTTIIAFAALCATGCTGCTFGFGGCAATAT 515 639 ATGCCAEGGCAACACAGGGATCAEATTEITATGTICATGCIGCTIGCTGTGGCAATAT 698 516 TATCACTGIALICAGIICACCTITIAITAAAAACAGGAGGAGGAGGGGGTCTTGAFTT 575 576 AFGAAAAATTAGGAGAAAAAGAITFGGATWGGGGGAAAAATMGAGGIITIGTIFGGA 635 759 ATGAAAATTAGGAGAAAAAGGCATITGGALGGCOGGAAAAATTGGAGCTFTGCTTGCA 818 636 TACAARSAAAAAATISGAGTAARGIGAAASIAGTETTIABGATIAAALAIGAACTAC 695 696 CTGAASTAATVAGAGCATTAATGAGACTTGAAGAAATACHGGAAATGGTACCTCAATG 755 879 CIGAAGTAATCACACAFTCALGAGAC LGAAGAAAT TCIAGAGAATGGTACCTCAAFG 938 816 AFTTAGGITATGIIGGGTATAGCAGTGGALTITGICTTAGGIGGATGGIGFITTITGITA 875 Undels 148; Gans 936 FEGGAAATCEGACAACAACAACAACAACAAGAATGAATGTGAATGTTACCCAACAACT 65.1%; Score 1185.8; DB 24; Length 2074; 1059 GEGIGGLGAFITAGAAGAAAFFCGAAATAGGGGGGGGGTAGG--- -----47: U; Nismatelles Pred. No. 0; 88.0%; Matches 1462; Conservative Best Local Similarity 1102 Ξ ŝ 90 3 3 Ś q Š Ê 1  $\tilde{\Xi}$ 3 <u>ء</u> <u>-</u> 5 S 3

| 1056   ATCANAMY CANADY NAGARANGE FULL HITTELL HITTEL | Q<br>2         | 1102         | [0]]  |  |
|--|----------------|--------------|---|--|
| 1116   ATGACAAGTGRAACCTAAATACTTGTATTCAACTOCGGGACGCTATGCCAATTCCTA   1161   TATGACAAGTGRAACCTAACTTGTATTCAACTCCGAAGTGCTAGGAATTCCTA   1161   ATGACAAGTGRAACCAAATACTTCTCAACTCCGAAGTGCTAGGAATTCCTACAATTGCAACTTGAACTTGAACTTGAACTTGAACTTGAACTTGAACTTGAACTTGAACTTGAACTTAACACTTGAACTTG | 6 3            | 1056         | ATGAGAACGAGGCAAQGGCTC FCTTCATGACAGTGGAGTAGAAGTTCAGAGTCGTTGGTTGG   |  |
| 1176 TECTACHATH OF PEPTICIPAL DECACECTIOGETIC CHECAPETACAGETICAND INTO THE HITH HITH HITH HITH HITH HITH HITH  | 37<br>0b       | 1116         |   |  |
| 12.36 ATCOGNORAGAAAATGCAAACGTTCAATTTTCTATCAACGGGGATGTTTGTAATTTTGTATTGTATTGTAATGTTGTAATGTTGT  | 수를             | 1176         | 3 3   |  |
| 1296 TGTACCTGCTTGCCGCCTCTTTGGTTACCTACCTCTATGGAGAAGTTGAAGATTTTTTTT  | S q            |              | ATORIOGIOCOGAGAAAATGCAAAGGIGTGAAATATTTCCATGACGGGGATGCTTGTGA 1295<br>  |  |
| 1456 TACTECATGCTACAGEAAAGTGTATACATTACACCTCTTCTCATGGTTCGCCTGT 1401 TACTTCATGCCTACAGCAAAGTGTATACATTACACCCTTCTCTCATGGTTCGCCTAG 1416 TACTTCATGCCTACAGCAAAGTGTACACTCGCCCTTCTCTCTC   | <u>&gt; a</u>  | 1296         |   |  |
| 1416 CACTCCTTGTOBCAGLAACACAAACTCTGCTCTCTCTCCCAALTCGTCAAT 1461 CACTCCTTGTOBCAGTAACACTCTCTCTCTTGTTTTTTTTTTTTTTTTTTT  | 7.7<br>qu      | 1456<br>1401 |   |  |
| 1476 IGATCACACCTTATTTCCCAACGACCTGGGTAGGACATTTCTGTATTGCAG 1521 IGATCACACCTTATTTTCCCAACGACCTTCAGCTGGATACGACTTTCTGATTGCAG 1521 IGATCACACTTATTTTCCCAAACGACCTTCAGCTGGATACGATTTCCTGATTGCTGAGTGCAGT 1536 CTCTGCTTATTTTCTAAATGTTCTGCCACTTGTGCCAACTTTTAAAATACATCTTTTTTTT  | × 9            | 1416<br>1461 | CACITICATIGNOCAGIAACASAACTICAGCCATTCATCATICAGAATITCGACAGAGA 1475<br>  |  |
| 15.46 CTGTGCTTATGCACTTAATATCTTCTGGTCATGGTGGCAACTATAAAATACATCT 15.81 CTGTGCTTATTGCACTTAATATCTTCTGGTCATCTTGTGCCAACTATAAAATACATCT 15.96 TCGTATTCATGCACTTCATCCTCTGGTCATCTTTTTATTCTTCCAGGAGTTTTTTTT   | ά              | 1476         | TGATCACACTGTTATTTCCCAAACGAGCTTCAGCTGGATACGACATTTCTGATTGCA; 15.45<br>  H.H.H.H.H.H.H.H.H.H.H.H.H.H.H.H.H.H.H.  |  |
| 1596 TCGGAPTCAUGGGGGTTCTTCTGCCACTARGCTGATTTTTATTCTTCCAGGAGTTTTTTTTTT   | χ q            | 1546         |   |  |
| 1656 AECHAMACHGECAAGAAAGAAACTITTAGGICACCCÄAAAGGICGGGGGTITTAGIIII 1701 AECHAMACTICEAAGAAAGAAACTITTAGGICACCCCGAAATACAGGCITTAAIII 1701 AECHAMACTICEAAAGAAACAAACTITTAGGICACCCCGAATTACAGGCITTAAIII 1716 TCTTGIGGTTGGAATATTCTTCATGATTGGAAGCATGGCTCATTATAATIGACTAGA 1761 ICCTGIGGTTGGAATATTCTTCATGATTGGAAGCATGGCTCATTATAATIGACTGAT 1761 ICCTGIGGTTGGAATATTCTTCATGATTGGACGAAAGAAACAAACA  | λ <del>α</del> | 1596         | TCGGATTCATAGGGGCTTCTTCTGCCAGTATGCTGATTTTTATTCTTCCAGGAGTTTTTTTT  |  |
| 1716 TOCTTOBORTEGOAATATCTTCATGAAGCATGBCACTCATTATAATTGATGGAAATATGAAGAATATTGATTG   | 47<br>qc       | 1656         | ALCTIAAACHTGICAAGAAAGAAACHTTAAGGICACGCCAAAAGGICGGGGILTTAATH 1715<br>FELLITTIA HILLITH HILLITH HILLITH IIII ACCTTAAACHTGICACGCCCGCAATACAGGCTILTAATH 1760 |  |
| 1776 TETATGATECTECAAGTCAGCATCACTAACAGGAAAAATAC<br>   | <u>&gt;</u> €  | 1716         | TOCTTORGETTOGRAFIATTCTTCATCATCAGAAGCATGACTCATTATAATTGACTGGG, 1775.<br>  |  |
|  | ें है          | 1776         | TETATGATCCTCCAAATECCAAGCATCACTAACACAAGGAAAATACTETTTTTTTTTT  |  |

AAH14851 standard; CDNA; 1729 BP 26-Jun-2001 (Hirst entry) AAH1 4851; AAH13851

RESULT 5

Human; primer; defection; diagnosis; antisense therapy; gene therap; as 

Human cinha sequence SDQ ID No:10832.

Homo saprens

07 - FEB 2001.

996 CTGAGAGTTCTGATGTGAAVTTCATGATGGATTAVANAGAGTAATCCTGCAGGGCTGG 1055

EP1074617-Az

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sequence and an oligonacleotide comprision a sequence, where the polymar-leotide which comprises a 3' end sequence, where the oligonacleotide comprises at least 15 and sequence, where the tomination of the 5' end sequence, and sequence, is selected from those defined in the specification. The primer sets can be used in retiseuse therapy and in quie therapy. The primers are useful for synthesising polymar-leotides, particularly full length. CDAS. The primers are about the proteins encoded by the tull length cDNAS. The primers allow obtaining of the full-length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAB95893 represent human amino and sequences, and AAH19625 to AAH13612 represent oligonucleotides, all of which are used in the exemplification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention describes prime; sets for synthasising 56.3 full-length cDMAs defined in the specification. Where a primer set comprises (4) as alleger of primer and an alleger frequentiary to the complementary strand of a polynocleckide which comprises one of the 56% machedide comprises defined in the specification where the oliquous clocked comprises at least 15 more obtained which comprises one of an orbitanched decomprishing a sequence complementary strand of a polynocleckide which comprises a 5% end
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cDNAs easily without any specialised include. AAHÜN166 to AAHIN628 and AAHIN635 to AAHIN742 represent human cDNA sequences: AAH92446 to
                                                                                                                                                                                                                                                                                                                                              Primer sets for synthesizing polymologides, particularly the 5602 full-length cDRAs defined in the specification, and for the detection and/or diagnosis of the abnormality of the proteins encoded by the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4. AAATAATTAAGAACAGAGTGTTCTGAACATCAACACAAAGTGGAAGAAGACTTAAGCTTAAGCTGAA. 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    153 AGAGAAAAAAAAAAAGAGAGGTETETGAAGATGAAAAAGGAAGAAGAGCTTAAGGGTGAA 212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                101 GGFACAGTATATTTACACTGAAGGGGTTGTGTGTGGGACAAGAAGGGGGGAAGAGGGTT 160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     221 GGAGAAACTGCTCCAGATAGCTACATCAGGATAGGAAATTCAGAAAAGGCAGCAATGAGC 280
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              281 ACTECALTICCHAATGAAGACACTGAAAGTCAAAATTGETGACAAATGAATTTTTGGGGG 340
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       213 GGTACAGTATATTATTATACACTGAGGGCCFFFFFGCACACAACAAAAAAGCFGGTP 272
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            46.0%, South 937.8, DS 20, Length 1709, 98.6%; Pred. No. 4.4e-236;
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                                                                                                                                                                                                                                   ota T. Isoqai T. Nishibawa T. Haga Ni e same ya Ishii S. Suqiyama T. Wakamatsu A. Naqai K. otsaki F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 1729 BP: 568 A: 400 C: 341 G: 520 T: 0 other:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 8: SPQ ID 10832 2537pp - CD FOM, Poglish
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
                                                                     27-AUG-1999; 99JP-0300253.
11-JAM 2000; 2000JP-0118776.
02-MAY-2000; 2000JP-0183767.
20 JUL 2990. 2000NF 6110126.
                                               293P 0248036
                                                                                                                                     09 JUN 2505, 2509 B - 8041844
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        the present invention.
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                                                                                                                                                                                    (HELLI-) HELLY RES INST.
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                                                                                                                                                                                                                                                                                                                                                                                                                        full-length comAs
                                            29 JUL 1995)
27-AUG-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches 845;
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Human; primers detection, diagnosis; antisense therapy; gene therapy; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | GREAN CONTROL OF THE STANDARD OF THE STANDARD CONTROL OF THE STANDARD OF THE
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4 pt. 100 Traditia April GAND AATGONATO ABONG NA GOGGA INDITIONATIA DESCRIPTIA DE SERVI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         HTTP DELITITION THE REPORT OF TAXAWAY CARL ASSESSMENT AS A SAW WAS A WAY A WAY OF A SAWAWAY CARL ASSESSMENT AS A SAW WAS A SAWAWAY CARL ASSESSMENT OF TAXAWAY CARL ASSESSMENT OF TAXAWA
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Primer sets for synchesis in polymeral dess. First Collection of a

341 AAAAAGAAGCISBISAAAATAA ESCEBATGANAMATA INMAGAAGATTMGII I GSAAAIG 400

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full length cHMAs defined in the specification, and for the detection and/or diagnosis of the abnormality of the profesus encoded by the full-sength cHMAs.
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"laim 1; SEQ 10 687; 2547pp · "E ROM: English.

The present investing described primer acts the synthasicited 5622 outlibrough clans defined in the specification. Where a primer set comprises: (a) an objected primer and an objected decomprises one of the complementary strand of a polymerleotide which comprises one of the Golz mertendide sequences defined in the specification where the objected decomprises at least 15 maintaides; or (b) a combination of an objective comprises a 5%-end of an objective comprises a 5%-end sequence and an objective comprises a 1%-end sequence of the comprises at least 1% nucleotides and the compination of the 5%-end sequence and sequence. Where the complication is contained to the first set of the specification. The primers at least 1% nucleotides and the complication of the specification. The primers are also useful for the objective of the three class of the class of the first class of the objective series of the first class of the objective series of the third of the proteins encoded by the third and/or diagnosts of the abnormality of the proteins encoded by the primers are also useful for the objective and AMH 36% or present changes at 1% of the present invention.

Sequence 918 PP: 296 A; 175 3: 22' 3: 22: 1, 2 3:34:1;

41 AAATAATTAAJAAGAAGTGT FOTGAAGAGAAGTGGAAGGGGGAAGAAGTGTTAAGGTGAA 100 101 - GGJ AÇAVITATATAT FIAVAÇITGAAGGGGGTI GIRTIC BOGAVAAMAAAGGGG IGACAYI - 160 281 AGTCAATTTGGTAATGAAGACACTGAAAGTCAGAAATTCCTGACAAATGGATTTTGGGG 340 THE HITTELLE HITTELLE HELLE HE 3.3.4. GGN3AAAGTGGTG2AGATAGGTAGATGGGGATAAJAAATTGAGAAAAAGGCAGCAATGAGG-392 393 AGECANTTEGETAATGAAAGACTGAAAAGTCAAAATTTOOTAAATGOOTTTIGGAAGAGAGAGA 441 AAAAAGGAGGCGGGGGGGTTATGCTGATGACGGCGGGAGCGCGGGACTTGCTTTGGGAATG 400 401 FOTFCATTTAAGGIGAGIAATGGCATGAGGGGAGTGGGA MYGTGGGTTLGFCVFFAGGY 460 50 C 50 THE HELLER HELT HELLER HELLER HELLER HELLER HELLER HELLER HELLER HELLER HELLER 221 HAAGAAAGIPYYYYAGAIAYYIYAGAIAGAYAATAGAAAATTIAGAAAAAAGAAATGAGG Secto 682.4: 148.22; Length 918; Prod. No. 2e 190. 0; Mismatches 2s; Indole 2; 47.58; 96.08; Conservative Local Similarity 720: Matches Host ŝ 3 뎚 3 Ť

581 AAZTA SA SASAASTATTI TAKTI TATTI TA

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(AAL07544 AAL26289) and methods of assessing whether a parieur is allieted with breast cancer by examining the correlation between the expression of certain markers and the camerons state of breast edits. The polymertexides and encoded polypeptides are potential markers for detecting, adaptosing, monitoring, characterissing resulting and polymertally preventing beast cancer. The polymereorides and encoded polypeptides are also useful for isolating compounds with eyrostative
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693. AAA FLASSAJAAAAASCATTIGGATGGCCCGGCAAAAAFFGGAGGGGTTFGGTTCGATTAC 752
                                                                                                                  640 AATGCAGAACATTGGAAAAAQTCAAGCTACCTTATCATTAAATATGAACTACA 699
                                                                                                                                                                                                                                    760 ASTAATTAATTAATEDA NOOAGELGAASAAA TACT GAASAALG HASTETAA FARSAA 1769
                                                                                                                                                                                                                                                                         FOR THE MEMORIAL AND LINE WAS INDICATED FOR THE PROPERTY AND AND ADDITIONAL PROPERTY OF THE
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                                                                                                                                                                                                                                                                                                                                                                                       740 CTACCTCATCATATITGTGTCTGTTGGAAT 789
                                                                                                                                                                                                                                                                                                                                                                                                                                Lillic J. X. Y. Wang T. Stellomann K;
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2000US-0189167.
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15-MAY 2000;
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121 GGGAAAGGCGCGGAGATAGCTACATCGGGATAGGAAATTCAGAAAAGGCAGCAATGAGCA 180
                                                                                                                                        402 CITCATTTAACCTGAGTAATGCGATGATGGCCAGTGGCTGGTGGTGGTGGTGGTGTATGGAA 461
                                                                                                                                                                                                                                                                              801 CTTCATITAACCTGAGTAATGCCATCATGGGCAGTGGGATCCTTGACCTTGTCCTATGCCA 360
                                                                                                                                                                                                                                                                                                                              542 AATTAGGAGAAA-GGAATTGGALGGGCGGG--AAAAATTGGAGGTTTGCTTTGCAITA 638
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  541 CANTICAGAACATIGGAGGAAATGIFAAGGIAFFTTTTATFATTAAATAGGT 698
                                                          222 GAGAAASTGGGGCASATASTTAGATGAGGATAGSAAATTGAGAAAAGGAAAAGAAATGAAGA, 281
                                                                                                                                                                                    342 AAAAGAAGCIGGCAGAITATQTIGAIGAAGAAGAAAQAAQQAQTIQQTITGGAAHGT 401
                                                                                                                                                                                                                                                                                                              462 IGGCCTACACAGGGGTCAFACTTTFTATAATCATGCTGCTTGCTGGCAAIAFFATCAC 521
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169 AAATGGATCTGATGGACTCAGAAAFCTCAAGATTGAAAGAAATGATGAGGAGGAGTG DDI
                                                                                                                       282 CITAATTIGGTAATGAAGAGAGIGAAAGIGAGAAAITGCIGAGAAAIGGGAITITIGGGGA 341
                                                                                                                                                                                                                                                                                                                                                                           522 TGIATICAGTICAGCTIUTAITAAAACAGCCAACGAAGGAAGGGCCTITGAITTATGAA 581
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                                                                         698 GAAGIAATCAGAGGATTOATGOGAGTTGAAGAAAATACTGGAAAATGGTGGTT 750
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AAH64938
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the invention relates to full length GENSET human nucleic acids coesting potentially a relate proteins. The nucleic acids and the properties they encode may be used in the prevention, treatment and diagnosis of
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AAD33464 Standard; cDNA; 2320 BP

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01-JUL-2002 (first enfry)

Human IRICH-18 cDNA

Human; transporter and lon channely TPICH-LW; transport disorder; angina; amyotrophic laters; solerwise, cystic librosis, neuroing disorder; cancer; deprovation polympositis; diabetes; neuroing disorder; cancer; deprovation; subjects; neuroing disorder; cancer; deprovation; subjects; neuroing disorder; cancer; cell profilerated disorder; interfilly, arterioselerusis, gene therapy. Participants's disorder; interfilly, arterioselerusis, gene therapy. Participants's disorder; alterapy and subjects; mailly a selection memorial of disorder; special and arteriose disorder; arterioses; and an arteriose disorder; and many disorder and arteriose and arteriose. endoctine discussion accommentation of processions.

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Homo sapiens.

Location/Qualitions/ 375...1895

"Human TRICH-18 profein" /product 1014/

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Yuo Mi. [4] P. Malla NK. dardhi AK. Hafalia AJA;
Yao Mi. Patterson C. Elliott VS. Tribouley CM. in DAM. Xu Y;
Hernandez E. Rorawaky Mi., Lo 1P. La Y. Polieky JI.;
Sanjanwala MS. Raumann BE, Burford N, Ison CE, Lee EA. Regulphu MR Tang YI, Azimzai Y, Seilhamer JJ; Khan FA, Thornton M. Ramkumer 1. Kallick DA, Yao MC. Das D Nauyes DB, Reddy R, He Greene BD, Yang J, Ding L Yue H,

WP1: 2002-206440/24.

P-PSDB; AAE21174.

polynucleotides for diagnosina, preventina or treatina transport, memrological, muscle, immunological and cell proliferative disorders New human transporters and ton channels polypeptides and

"laim 92: Page 217-218: 230pp, English.

neutrological disorders associated with transport e.g. annesia, bipotar disorder, depression, fourette's disorder, schizophrenia, other cisorders associated with transport e.g. neurolibromatosis, sickle cell anaemia, Wilson's diseaso carrects interitting hypotalycacmia, bypotalycacmia, the invention relates to human transporter and ion channel polypeptides designated IRFH and martele acid molecules encoding such polypeptides. TRICH sequences are assertal for diagnosis, treatment and prevention of transport, muscle, neurological, immunological and cell proliferative disorders. Transport disorders include akinesia, amyotrophic lateral systrophy, diabetes mellines, diabetes inspidus, myastbonia gravis, myocarditis, prostate cancer, cardiac disorders associated with polymyositis, bradyarrythmia, dermatomyositis, angina, transport e.a.

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626 TTFGTFFGCATTACAAFGCAGAACAFFGGAGCAATGFCAAGCTACGTGTTTAFCAFTAAA 685

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966 TELLEPFILASTOFGGFGAFFLACAAGAATTGCAAATAGCCTGGCCLCFAVCLOLLTS 92%

806 CFCCTTAAAAATTTAGGTTATCTTGGGCTATATAGAAGTGGA FTTFFCPCTTAAGTGGA FGAAA

acitic, Cushing's disease, hypercholesterolaemia and cystinnia. Cell proliferated disorders include cancer, actinic keratosis, crithosis, arteriosclerosis, atheroselerosis, bursitis, hepatitis and psoriasis, watteriosclerosis, atheroselerosis, bursitis, hepatitis and psoriasis, watteriosclerosis, and parkinson's disease, amyorephic lateral selectosis, epilepsy, stroke, Buntindrom's disease, multiple selectosis, dementia and other extrapyramidal disorder, motor neuron disease, metabolic disease of the nervous system and other developmental disorders of the central nervous system. incornaisentar disorders, metabolic, endoctine and toxic myopothies, periodic paralysis, mental disorders including amout, auxiety; and immunological disorders include acquired immuno deticency syndrome (ALES), adolf respitatory distress syndrome, Addisord's disease, alterties, asthma, atheroselerosis, osteoporosis, autoimmune haemolytic anoming, autoimmune thyroiditas, Crohn's disease, atopic dematitus, of averse, along dematitus, of averse, along dematitus, bytanic statemental activities, the matorial systemic selectosis, alectoralize collitis, horrordialysis, apritis, viral, bacterial, fungal, parasitic, protocoal, heiminthic infections and tradma, and mustle disorders include cardiac Espath, esperablis, polymyositis, arrhythmias and hypertension. The TRCB polymeactures are used in dent therapy. The present sequence Z06 GATGAGAGGAGGAGGGGAAAGTGGTGCAGAFAGGTACATCAGATAGGAAAFFGAGAA 245 414 GARGAAGAGAGCAGGIACAAGIICGAAGAGGGACTIGAAGIAGIGGAGGAGGAGGAAG 473 zké aminiminangangangtoanttigolaatgaagadnolgaaagtoanaal dolgara kes 7-1-1 0; Mismatiches 514; Indeis 117; Saps 446 GGC11CHCOLATGOCATGGCCTACACAGGGGTCATACTHTTTATAATCATGCTGCTTGCT 27.8%; Score 506.6; 108.24; Length 2320; 60.1%; Pred. No. 2.20-138; Sommon 2420 Htt; 582 A; 486 C; 482 S; 770 T; 0 Other; = estination, is human [RICH-18 cDNA. est Local Similarity Cathelians GSZ west Match

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1125 TTGATAATTAAGGAAAGAATAAAGAGGACTTAAGAGGGAA---------1167
                                                                                                                                                                                                                              986 CCCAACAACTCTGAGGTTCTGAIGIGAACTTCAIGATGATTACACCCACCGCAATCCT 1045
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                                                                                           926 GATCACACTOTIGGAAATCTGTCAIICAACAACACGCTICCAATGCAIGTGGIAATGTIA 985
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The invention relates to buman breast cancer expressed perlymetratides (AALO754-AAL-26769) and methods of assessing whether a patient is afflicted with breast cancer by examining the correlation between the expression of certain markers and the concerous state of breast certs. The polymetrootides and encoded polypeptides are potential markers for derocting, districtly markers and encoded polypeptides are potential markers for botentially preventing breast cancer. The polymetrotides and encoded activity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        102 GTACAGTATATTATACACTGAAGGGGTTGTGTGTGGGACAAGAAAGGGGJGACAGGT 161
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              203 GICAATTIGTAATGAAGACACTGAAGTCAGAAATTGCTGACAAALGATTTTTAGAAA 26.2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     222 GAGAAMTGTTCCAGAIAGGTACATCAGGATAGGAAATTCAGAAAAGGGAGGAAIGAGGA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 548 BP; 172 A; 100 C; 140 G; 136 T; 0 other;
Human: breast cancer; cell marker; cytostatic; ss
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                                                                                                                                                                                                                                                     (MILL-) MILLBUNIUM PREDICTIVE MEDICINE INC
                                                                                                                                                                                                                                                                                 Lillie J, Xu Y, Wang Y, Steinmann K;
                                                                                                                                                                                                                                                                                                                                                                     Claim 1; Page 986; 3695pp; English.
                                                                                                                                     14-JAN-2000; 2000US-0176077, 14-MAK-2000; 2000US-0189167, 24 MAK-2000; 2000US-0192099; 25-MAK-2000; 2000US-025480, 05-30M-2000; 2000US-021315, 05-30M-2000; 2000US-0220534, 25-30M-2000; 2000US-0220534,
                                                                                                              10-JAN-2061; 2001WO-US00798
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                                                       W0200151628-A2.
                            Homo sapiens
                                                                                   19-JUL-2001.
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In other therapy. The primers are useful for synthesising polyhudel of ides, particularly full-length chake. The primers are also useful for the detection and/order diagnosis of the atheramelity of the proteins coroted by the full-length chake. The primers allow details at the full-length chart chars. The primers allow details at the full-length chart chart without any specialised methods. AAROGAGE to AARI3628 and AARIGGAGE represent human curing sequences; and AARIGGAGE to AARI362 represent than chart and sequences; and AARIGGAGE to AARIGGAGE.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    oliminated and comprises at least 15 nucleatides and the combination of
the 5'-end sequence/3'-end sequence is selected from those defined in
the specification. The primer sets can be used in antisense therapy and
                                                                                                                                                                                                                                                                                                                                                                                                       Bowans primer, detection, diagnosis, and Lacose theraps, gene therapy,
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                                          444 FGFAFFCAAGTFCACCTFFTAAAAACAACAAGGAAGGAAGGAAGGAAGGAAGTFTAATG SQ2
522 FOLATIC - AGLICACOLITTALIAAAAACAGOCAAAGAAGAAGAAGACACICIII - - CATTLAIG 578
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                                                                                                          579 AAAAATTAGGAGAAAAGG - CALTTGGATGGCCGGGAAAAA 617
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                                                                                                                                                                                                                                     AAB14612 Standard: cDNA; 4384 BP
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11-JAN-2000; 2000JP-0118776.
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                                                                                                                                                                                                                                                                                                                       26-JUN-2001 (first entry)
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Sequence 4384 BP; 1241 A; 804 C; 853 G; 1486 1; 0 other;

of the present invention.

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HARE STRANDARD TOTAL SZALTGI SZLOTLOTTOS SAALD SOLAÇARI GATOVI VA TALTIA (1994) HARE SLOAVOLOAVASTACCASLAGITATI FICOCAALOGGAASITOTGIAAV DAN DAN TACCASLAGITATI FICOCAALOGGAASITOTGIAAV DAN DAN TACCASLAGITATI FICOCAALOGGAASITOTGIAAV DAN DAN DAN BATA SAALA
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The interfie relates to Luman Erras cancer captured polynomials (AALO7544-AALA6789) and methods of assessing whether a patient is attilited with breast cancer by examining the correlation between the expression of certain marks and the expression of certain marks and properties are polential marks tells. The polynucleotides and encoded polynoptides are polential marks for detecting, diagnosing, monitoring, characterising treating and potentially preventing breast cancer. The polynucleotides and encoded polynoptides are also incital for include temporare at the sybbalatic activity.
                                     | 1679 | AAVAAASAAATTIFTAGITDAGTTAAAASTUGAGUGGTTAATTITGTTGTGTGTGAA 1729 | 1729 | 11444444 | 1444444 | 1444444 | 1444444 | 144444 | 1444444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 1444444 | 144444 | 144444 | 144444 | 144444 | 144444 | 144444 | 14444
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                                    AALESES Stateorid; chang 755 BP.
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15-MAY-2004; Z00008 02052 (0)...
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Zenddis- 0192099.
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RESULT 13
                 AAL2 (2 (5)
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19.5%; Score 356; DB 22; Length 606; 100.0%; Pred. No. 2.6e-94;

Rest Local Similarity

Query Match

Sequence 606 BP; 188 A; 113 C; 111 G; 188 T; 6 other;

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11-APR-2002
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                                                                               Query Match
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                                                                                                                                                                                                                                                                                                                                               DNA Sequences encoding 7-transmombrane depotein employ protein receptors characteristic of hematopoletic stem (ells, useful for
                         19.5%; Score 356; DB 22; Lougth 755;
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ive 0; Mismatchec 0,
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83.1%; Pred, No. 7.5e-89;
Uve 0; Mismatches 79; Indexs 3;
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Matches 403, conservative
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(GENE-) GENE LOGIC INC 

Horne D, Alvares C, Peres-Da-Silva S, Vockley JG;

WPI; 2002-426119,45.

Diagnosing and detecting the progression of liver cancer, heptocellular carcinoma or metastatic inversion in a patient, involves detecting the level of expression of two or more genes in a liver tissue sample.

Claim 1; SEQ ID NO 3373, 298pp, English.

The invention relates to a movel method for diagnosing and detecting the progression of liver cancer, hepatocollular carcinoma or metastatic liver cancer from tumour in a putient, and differentiating metastatic liver cancer from the performing necessatic liver cancer from the performing of the cancer from the performing of the cancer from the performance of two or more genes represented in ABN9363 ABN9455 in a lissue sample. The method of the invention has hepatotropic, and consistent of the progression of liver cancer, hepatocellular carcinoma and metastatic the progression of liver cancer, hepatocellular carcinoma and metastatic expression profiles which serve as useful diagnostic markets as well as markets that can be used to mention is useful for identifying markets that can be used to mention is useful for identifying markets that can be used to mention is useful of identifying specification, but was obtained in electronism.

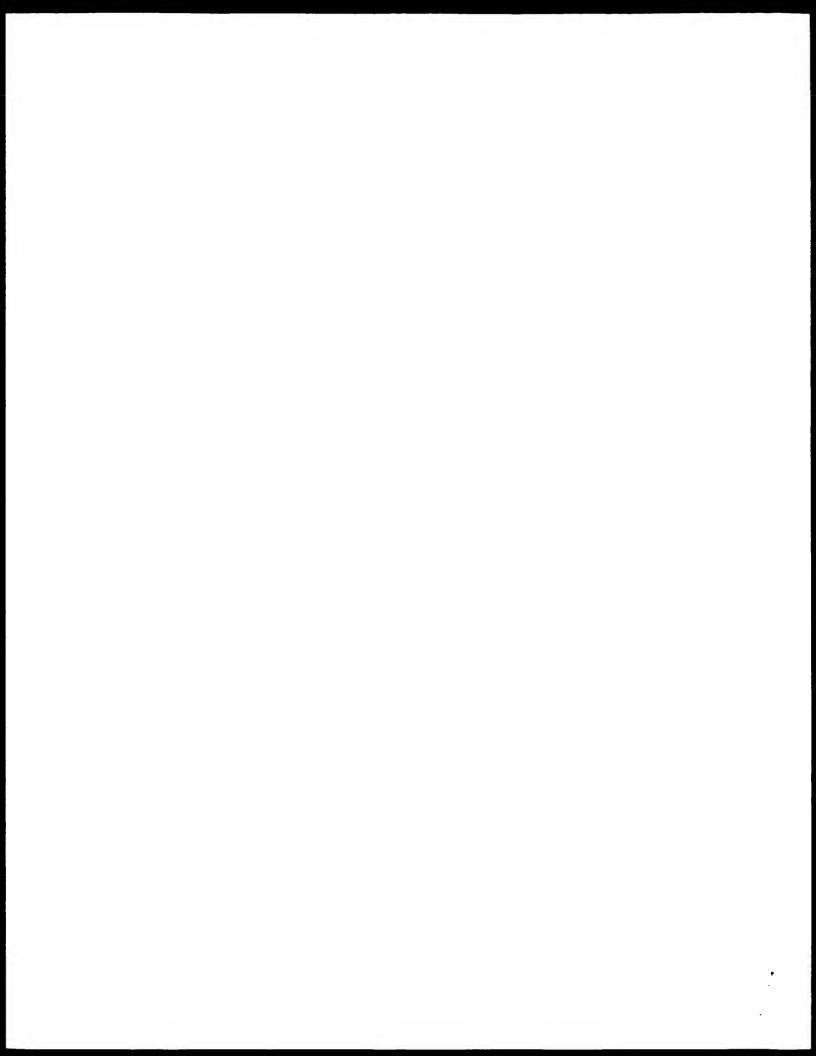
Note: The sequence data for this patent did not form part of the printed set fig. wipo.int/pub/piblished\_prt\_sequences.

Sequence 2431 BF; 477 A, 805 C; 522 G, 527 L, 0 other,

380 GGAACCACLICCITIGGAAIGICITCATTTAACCIGAGIAAIGGAAICALGAAGAAGA 439 500 CITECLICIONOMAMATTATCACIGTATICAGTICACCILLIALIAAAAAQAGCAAGGAA 559 560 GSAGGGTCTTTGATTTATGAAAATTAGGAGAAAAGGCATTIGGATGGCCGGGAAAAATT 619 SGASCITTISTI CHALLACAALGCAGAACAI GGASCAAIGTCAAGCLACCICII LATC 679 554 GPASCARP PIEGRAPA PERCOCI COAGAACAT COGAGGCAT STOCAGGT ACCIGIACATC 61.5 680 ATTAMATATGAACTACCIGAAGTAATCAGAGCATTCATGGGACTTGAAGAAAATACTGGA 739 740 GAATGGTACCTCAATGGCAACTACCTCATCATATITGTGTGT1GGAAJTATTCTTCCA 799 674 GACTGGTACATGAACGGGAACTACCTGGTAATCCTTGTCTCTGTCACCATCATTGTGCCC 733 800 CTITCGCTCCTIAAAATTTAGGTIAICTTGGCIATACCAGTGGATTTTCTCTTACCTGC 859 860 AIGGIGTITTITIAGIGIGAGIGATITACAAGAAAITCCAAATACCCIGCGCTGCTACCT 919 920 GITITGGATCACAGIGTIGGAAATCTGTCATICAACAACACGCTTCCAATGCATGTGGTA 979 Mismatches 506; Indels 117; Gaps 18.0%; Sovie 327.4; DB 24, Longth 2431, 55.5%; Pred. No. 1.5e-85; .; O Conservative Local Similarity Matches 778, qq ŝ qq Ö 30 ŝ 2 ŝ qq 90 qu S õ δŏ Q δŻ qq

980 ATGITACCCAACAACTCLCAGACTFCTGATGTGAAACTFCATGATGATGATAGACT FURS 1040 ANTOCHOPARGASTIGASANGAGAROPAAGGGCLGTCTTTALIANAAGGGAA 1099 1100 TATRAMATICAMATONATAMANATORONANDANAMATAMITETAMATO COGACO 1159 1280 ACOMOTANON FRANCAS DECEMBERON DESCRIPTOR DE LA FEBRUAR EL EL TELLE DE LA FEBRUAR 1160 OCCUATGOARTFORTALGCRAGIATINGTARGCAGGCRGAGGTGGTFFORARG 1219 1999 TAPA TEMBET MANAGEMENT OF THE STANDARD MANAGEMENT WAS A 1279 UTT | TTT | 1348 GAAGI FRAAGATGAATTACITÇAFBOOTACABAAGIGTATACAITAGAGATGGGTGT 1399 1163 PROBEGGRAD PROFESSION OF A PARAMETAN AND THE RESPECT OF THE TOTAL OF THE STANDARD OF THE 1223 CIGIGERATOGGERATOGERANGAGAGERANGAGAGGERATOG 926 -- AAGOSTANDSTEENAGOSTANDSONGSTAGETANDS LAGANDAN A 982 1469 CCAATTOOTAGATGAATGAATGAAGAAGIGIIGSSAAAGSAAGGTIGAGGTAGAAGAA 1519 1640 CTFCCACCAGTTTTTAICTLAACTTTT---- CAGGAAGAAGAAGTLTTAGGFCACCT 1593 1463 TITTO TO THE TOTAL TO THE TOTAL TRANSPORT OF THE TOTAL TO THE TOTAL TRANSPORT OF THE TOTAL TRANSPORT TO THE TOTAL TRANSPORT OF THE TOTAL TRANSPORT TO THE TOTAL TRANSPORT TRANSPOR 1754 SSATISATIATATISASIAS 1774 1111 11 11 1111111 1583 ABELITONESATEATISASISS 1633 Š ô qq qq õ 원 5. 00

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| 9 57.2   11.4   1100   17 CNR010EV<br>11 56.4   11.4   1100   17 CNR0046N<br>12 57.2   11.4   1101   17 CNR004N<br>13 57.4   11.2   1101   17 CNR006N<br>14 54.4   10.7   1101   17 CNR006N<br>15 57.4   10.7   1101   17 CNR006N<br>18 52.8   10.7   1101   17 CNR001II<br>20 52.6   10.5   978   17 CNR01III<br>21 52.4   10.7   1101   17 CNR001II<br>22 52.6   10.5   978   17 CNR01III<br>23 52.6   10.5   978   17 CNR01III<br>24 52.7   10.4   1101   17 CNR01III<br>25 10.4   1141   17 CNR01III<br>26 51.2   10.4   1101   17 CNR01III<br>27 52.1   10.1   10.2   1201   17 CNR01III<br>28 51.2   10.2   1201   17 CNR01III<br>29 51.2   10.2   1201   17 CNR01III<br>20 51.2   10.2   1201   17 CNR01III<br>20 51.2   10.2   1201   17 CNR01III<br>21 10.2   1201   17 CNR01III<br>22 50.4   10.1   1101   17 CNR01IIII<br>24 50.8   10.2   1201   17 CNR01IIII<br>25 6.1   10.1   1101   17 CNR01IIII<br>26 6.1   10.1   1101   17 CNR01IIII<br>20 6.1   10.1   1101   17 CNR01IIII<br>20 6.1   10.1   1101   17 CNR01IIII<br>20 6.1   10.1   1101   17 CNR01IIIII<br>20 6.1   10.1   1101   17 CNR01IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII   | 2 2 2 8 2         | 58.2<br>58.2  | 11.6             | 1101               | 17       | CNSODBIN   | Alphysic Brosophili                         |  |
|--|-------------------|---|------------------|--------------------|----------|--|---|--|
| Sec. 2   11.3   1.07   17. CNR.00.845   ALCONOMINA   AL   |                   | 57.2  | 11.4             | 1006               | - 1      | NO CONC  |   |  |
| Section   1.3   259   17   CHRSC.XV   ALGA 1.4     Section   2.5   17   CHRSC.XV   ALGA 2.44     Section   2.5   17   CHRSC.XV   ALGA 2.44     Section   2.5   17   CHRSC.XV   ALGA 2.44     Section   2.5   17   CHRSC.XV   ALGA 2.45     Section   2.5   17   CHRSC.XV   ALGA 1.52     Section   3.5     |                   | 57  | 11.              | 1101               | 1        | Car ousing   | Intersectibil                               |  |
| S6-2   11.2   11.0   11.0   17   CASCORKY   ALGO-SAS A ALGO-SAS    | 11                | 56.6  | 11.3             | 256                |          | AXOSOSAC   | Linescophi<br>17                            |  |
| Colon   Colo   | 1.2               | 56.2  | 11.2             | 1101               | 13       | CNSCOBX  |   |  |
| 54.4         10.9         725         17         BILLBURGES         BILLB  | ~                 | C.<br>L'  | c<br>            | С,<br>Б,           | 1-1      | XVe 5000   |   |  |
| S1.6   10.7   996   17   CNSO0PUH   Aid71065   31.2   10.2   110.1   CNSO0PUH   Aid71065   31.2   10.2   110.1   CNSO01A01   Aid7107415   32.8   10.5   37.8   17   CNSO01A01   Aid710704   Aid71070   | 14                | 54.4  | 9.01             | 725                | 17       | BH180165   |   |  |
| 7.3.4 10.7 110.1 17 CNSG00BOL ALGESTATES ALG |                   | 54.6  | 10.7             | 906                | 17       | CNSOOFUH   |   |  |
| S2.8   10.6   750   17   CNSOLING   ALADOR 40, 25.8   10.5   875   17   CNSOLING   ALADOR 40, 25.6   10.5   879   17   CNSOLING   ALADAR 24, 25.6   10.5   879   17   CNSOLING   ALADAR 24, 25.4   10.5   660   17   BH183498   BH18498   BH18498   ALADAR 24, 25.4   10.5   660   17   BH183498   BH18498   BH184988   BH184988   BH184988   BH184988   BH18498   BH184988   BH184988   BH184988   BH1849   | 0 1-              | υι<br>ευ  | 0.7              | 1101               |          | CNSCOBOL   |   |  |
| Alice   Alic   | 3.                |   | 3 111            | 7 L                |          | MASO COLM  |   |  |
| S2.6   10.5   978   77   CNSOLDED  | 5 5               | 50.00   | 5 0              | 007                |          |  |   |  |
| 52.4   10.5   660   17   2000   2000    | 200               | 50.0  | 10.5             | 0.7                |          | CNSCLERG   | J.  |  |
| Fig. 10  | 21                | 52.4  | . 0              | , 4<br>, 6<br>, 6  |          | 2 N C C C C C C C C C C C C C C C C C C  | ALU/8272 irosophil                          |  |
| 52   10.4   480   17   817/3974   74   74   75   75   75   75   75   | 2.5               | 52.4  | 2 - 2 -          | 0.49               |          | DRIO3490   | BH184498 023_107-                           |  |
| Colored Foreign   Colored Fo   |                   | 2.5   | 10.4             | 480                |          | BH739714   | Albazogd's 173 end of                       |  |
| S2   10.4   114   17   CR8014Ap  |                   | ē   |                  | 1                  |          | Chsoonis   | A105533 105 4551                            |  |
| 10   |                   | N 1   | 10.4             | 1141               |          | CNS014AQ   | Allusels Drosophil                          |  |
| 10   | 70                | 20.0  | 10.4             | X. S               |          | CNSO4P4P   | Alsonern Tetracdon                          |  |
| A   DRAGE      | - a               | r -   | 9 :<br>0 : :     | 1017               |          | 7NS00391,  | ALC6 4926 Drosophil                         |  |
| S1.2   10.2   678   17   CNSORANGE   ALLOHORS   S1.2   10.2   678   17   CNSORANGE   ALLOHORS   S1.2   10.2   675   17   CNSORANGE   BLOBBI   BLOBBI   BLOBBI   BLOBBI   BLOBBI   ALLOHORS   S1.2   10.2   51.5   10.2   51.5   10.2   51.5   10.2   51.5   10.2   51.5   10.2   51.5      | o c<br>i c.       | : C   |                  | <u> </u>           | <u> </u> | CNSOL 700  | ALTORAGE Drosophil                          |  |
| Sh. 2  |                   | 51.2  | 10.2             | 2 2 2 3 2          |          | CNS01878   | Andshug/ brosophil                          |  |
| S1.2   10.2   1201   17 CNS016   H   ALJ06171     51.2   10.2   1201   17 CNS07360   ALGATICA     50.8   10.2   529   7 CNS071860   ALGATICA     50.8   10.2   529   7 CNS0118P   ALGATICA     50.8   10.2   529   7 CNS0118P   ALGATICA     50.6   10.1   10.2   17 CNS0158   ALGATICA     50.6   10.1   10.0   17 CNS0158   ALGATICA     50.6   10.1   10.0   17 CNS0167M   ALGATICA     50.4   10.1   11.01   17 CNS0187   ALGATICA     50.4   10.1   12.01   17 CNS0187   ALGATICA     50.4   10.1   12.01   17 CNS0187   ALGATICA     50.2   10.0   12.01   17 CNS018   ALGATICA     50.3   10.0   12.01   17 CNS018   ALGATICA     50.4   10.1   10.0   10.0   ALGATICA     50.5   10.0   10.0   ALGATICA     50.5   10.0   ALGATICA     50.5   10.0   ALGATICA     50.5   AL   | 3.1               | 51.2  | 10.2             | 9.45               | 17       | B10881   | ALCESSON DIOSOPHII                          |  |
| 51   10 - 2   116   17   CNS07360   Aid 27   27   27   27   27   27   27   27  | 3.2               | 51.2  | 10.2             | 1201               | 17       | CNS0161H   | AL 106175 Drosophil                         |  |
| 10   | m (               |   | 10.2             | 1167               | 17       | CNS07360   | AL427102 Clone BAO                          |  |
| Main   | ህ ነ<br>የ          | 20 E  | 10.2             | 67.5               | σ.       | AL514657   | AL514/57 AL914657                           |  |
| March   Marc   | . e               | . O   | 10               |                    |          | dd Flosic  | AL10u567 Drosophii                          |  |
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| M. Drosophila melanogaster<br>Pukaryota: Metazoa: Arthropoda: Hexapoda: Insecta: Preryueta<br>Neoprora: Endoperyqua: Diptera: Brachycera: Muscomerpha:<br>Ephydroidea: Drosophilidae: Drosophila.  | DURCE             | Dros  | ophila           | melanoa            | aste     | in the same of the |   |  |
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Acan Homorpha, Atanthoperydii, Peremorpha, Igtrachantlermes,
Tetraedentidus, Yostraeden
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Bonneau, L., Fillault, A., Opetier, F., Saurin, W., Fernot, A. and
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diyo. 47; Mismatches 201; Indols
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This sequence is a single read and was generated as part of a large scale clone-end sequencing project of the Tetracdon nigrovitidis genome. For more information, please take a look at
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Tetrandon nigroviridis
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Tetraodonfidae; Tetraodon.

Weissembach, J.

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bbbi-Nur-to SSD
1 (bases 1 to 576)
Roest-Crollius, H., Jaillon, O., Dasilva, C., Houneau, L., Fisher, C., Saurin, W., Flames, C., Minoter, F., Brotlier, F., Ouetler, F., Saurin, W. and Weissenbach, J. Brotlier, F., Ouetler, F., Umban gene number estimate provided by genema wide analysis using Unpublished
                                                                                                                                                2 (bases 1 to 5/b)
PostCrollius, H., Jaillon, O., Dasil'a, C., Filames, C., Fisher, C.,
Bouneau, L., Billault, A., Quetier, F., Saurin, W., Bernot. A. and
Weissenbach, J.
                                                                                                                                                                                                                                                                                                           Journal of the Submission Submitted (12-APR-2000)
Submitted (12-APR-2000)
This sequence is a single read and was generated as part of a jar scale clone end sequencing project of the letracoun nigroviridis genome. For more information, please take a look at http://www.jarnoscope.cns.fr/letracodon.

Location/Qualifiers

1. 576
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Determination of this BAC-cus septence was certified out as part of collaboration with the Perbelly Decaphila crossophila

The BAGF is constructing a physical map of the prosophila

The BAGF is constructing a physical map of the prosophila

melanogaster denome using these BACS. For further information
please see http://www.fruitly.org The BAGF Drosophila

melanogaster BAC inhery was proposed by Rathers of Servagar and

Melanogaster BAC inhery was proposed by Rathers of Servagar and

Acton Mammoser in Pieter de Jong's Laboratory in the Department of

Cancer Genetics at the Roswell Park Cancer Institute in Buffalo,

RW. The library is maked KVSI by and was constructed by partial

ECOMI didestion of Drosophila DNA provided by the BGCP from the

Bogenic strain y2, on bw sp. the same strain used for the BhaP's

Pl and EST libraries. A more detailed description of the library
and how to order individual BAC clones, the entire library, or

Inhters for hybridization from the BACTAC Reservice.
Prosophila melanodaster denome survey sequence T7 and of BAC: 1999 BAKE/9829 of REEL-98 (fibrary from brosophila melanodaster (fibit AL069706)
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Salamitted (32.55W 1995) Genoscope - Acutre National de Sequencade :
BP 191,91006 EVEY cedex - PRANAP (F-mail : sequencageope.cns.fr
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Web: www.demoscope.coms.LD.

Web: www.demoscope.coms.LD.

Petermination of this BAC end Sequence was carried out as part of a collaboration with the Berkeley Prosophila Genome Project (BASP).

The Body is constructing a physical map of the Prosophila medianogaster genome using these BACs. For turther information prices at 11 pp. 12 pp. 
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RP 191 91006 EVEY codex - FRANCE (E mail : segretisphossespectus.tr
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BACR37D06 of RPCL-98 library from Drosophila melanogaster (fruit
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Nespteru, Endopteryaota, Diptera, Brachyoera, Museomorpha;
Ephydroidea, Drosophilidae, Drosophila.
OOF TARKKKETAWAAAWAAAAAAAAAAAAAAAAAATAAWAKKKETWATATTETTEATTAAAK HITAARKKA 🤫
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52; Mismatches 258;
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Although and additional description of the state of a submitted (02.54M+1999) Genescope Centre National de Sequencage BP 191 91006 EVRT cedex - ibanée (5.mai) , sequef genoscope.cns.fr when it waw agnoscope cons.fr (1.10 betermination of this BAC ends sequence was satified out as part of a collaboration with the Berkeley Drosophila Genome Project (BDGP). The BDGP is constructing a physical map of the Prosophila melanogaster genome using a physical map of the Prosophila melanogaster genome using these BAC. For interesting information please see http://www.fruitij.org the BDGP Drosophila melanogaster abC iberary was prepared by Karutcher information Aaron Nammoser in Fieter de Jong's laboratory in the Leputument of Cancer Genetics at the Roswell Park Cancer institute in Buffalo, NY. The Ibrary was projected by the PDGP from the Isopenic strain y2, or by spy, the same strain used for the BDGP's and how to order individual BAC clones the entire library or filters for hybridization from the BACDAC Resource Center can be found at http://www.archila.com.the BACDAC Resource Center can be and by the BACDAC Center that the bacDACDAC Center can be and by the BACDAC Center can be and the BACDAC Center that the bacDACDAC Center can be and the BACDAC Center can be and the BACDAC Center can be and the 
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Library (Dros BAC) was Made by Alain Billiand at CEPH (Centre Public Article and Polygoryphisms urgs), with the project grant. The DBA at the part 1 to a world project grant. The DBA at the part 1 to a safety to a december the DBA at the part 1 to a safety to a december the DBA at the part 1 to a safety to a safety.
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Determination of this BAC end sequence was carried out as part of a validomation of this BAC end sequence was carried out as part of a validomation with the Berkeley brosophila denome using these BACs. For further information please see http://www.fruithy.org.fbc BAG Prosophila hardnesser in Fitter do Jong's laboratory in the Department of Narch Annovation In Fitter do Jong's laboratory in the Department of Narch Garest Gare for the BAG Library was prepared by Cancer Institute in buildie.

NY. The library is named RPCI-98 and was constructed by partial BAG-BC-98 in Mark provided by the HBAP from the BSB-BC-98 in the BAG-BC-98 in the BSB-BC-98 in the BAG-BC-98 in the BAG-BC-98 in the BAG-BC-98 in the SB-BC-98 in the SB-BC-98 in the SB-BC-98 in the SB-BC-98 in the BAG-BC-98 in the BAG
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Submitted (07-SIP-1000) Grandorphy Printer National de Septembage, 2 rue dastro fermioux, OP 576, 91057 EVRY cedox, FRANCE. (E-mail: sequel genoscope.cus.fr - Web : www.getoscope.cus.fr)
This GSS is part of a random genomic sequencing program of thirteen
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Malportuy,A., Mewreqlise,G., Cater Kalageu,Panlos,O., Totier,S.,
Santhiw, Teksia,I., Tuffano Hioto,C., Westlowaki Louch,M.,
Wincker,P. and Weissenbach,J.
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Souriet,J.L., Aiqle,M., Artiquenave,F., Blandin,G.,
Boiotin-Fukuhara,M., Bon,E., Brottier,P., Casareqola,S.,
Inc.,
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Drosephila melanosaster denome survey sequence (*) end of 6A* # nA school of artises (Adian) from prosepting to another (Trull ALECTA). According survey sequence.
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species: saccharomyces bayanus var., varian, Sirvinaromyces
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                                                     Web : www.qenoscope.cna.ii)
Determination of this BA2 end sequence was carried out as part of a collaboration with the Berkeley Drosophila Genome Project (BDGP).
The BD2P is construction a physical gap of the Prosphila.
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Prosophila melanogaster genome survey sequence TKT3 end of BAC #
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                                                                                                                                                 204 ACCIOSTGATGAAAGGATAAAGAIAAAAATEGEGAAAATOTEVAGAAAAAAATTGGATAAAT 263
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     84 AAATAGTAGAACTITFITITITITITTAGAAAAIGTGIGIGIGIATAGAAGAAAAAGAAGAAGCAAGCT 143
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Determination of this BAC-end sequence was carried out as port of a confidenciation with the Beckelsy bosophila Genome Froject (1963P). The BRGP is constructing a physical map of the Brosophila melanogaster denome using these PACs. For intther information ploads are enough to prove the BAC bibrary was prepared by Kantoyo osociawa and Aaron Mammosoc in Pictor de Jone's laboratory in the Department of Chrore Genefics at the Roswell Park Cancer Unstitute in Buttale, WY. The library is named RPD-98 and was constructed by partial Cancer Genefics at the Roswell Park Cancer this Hobby trom the English and WY. The library is named RPD-98 and was constructed by partial East is a transfer to be specified by the Hobby trom the BOC tromps and how to order individual BAC clones, the entire library and how to order individual BAC clones, the entire library for it can be be an interface of the library for it in the ACP Account Cancer and how to order individual BAC clones, the entire library for its and the first individual RAC forms and how to order individual RAC forms, the BACPAC Accounter Center can be an incomplete individual RAC forms and how to order individual RAC forms, the RACPAC Accounter Center can be an incomplete individual RAC forms in the RACPAC Accounter Center can be incompleted.
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FRANCE (Demail : segrefoquiasope.cms.tr
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Enkaryette Metagou: Arthropoda: Bexapeda: Inserta: Pterydoto:
Neoferora: Modelerygola: Diptera: Brachycero: Muscombipho:
Ephydroidea: Drosophilidoc; Drosophilu.
[- (bases: 1 to 852)
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/db_xref "taxon:7227"
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/note "end : TEF3"
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Schistosoma manasoni
Schistosoma manasoni
Strigeldida: McLuczus Flatyhelminthes, itematoda; Digenea:
Strigeldida: Schistosomatoidea: Schistosomatidae: Schistosoma.
I Chasea: I to 725)
Le Pashier M.-C., Flerce, R.J., Merlin, F., Hirai, H., Wu, W., Williams
"D.L., Johnston T., Leverde, P.T. and Le Pashier, D.
Construction and characterization of a Schistosoma mansoni
bacterial artificial characterization of a Schistosoma mansoni
Schomics 55 (2), 87-94 (2000)
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Institut Pasteur de Lille
I rue du Frofesseur A. Caimette, 59019-Lille, Franco
Iell: (3) (0)3 2087788
Email: Raymond-Firter compasteur interi
CNS sequencing ID-0000A0168801cpl
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/strain="Puerto-Rican"
/db_xref="taxon:6183"
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Other_GSSs: 016_I_02-rev
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AL SUBMITSE SOUNTIES FOR SOURCE (STRANGE (Estat)). Septent accounts to Machines for PMP DNA linear BSS necuba-1999 back31021 of RPC1-98 Library from Drosophila melanogaster (104). AUQT1063 AUQT1063
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Prosophila melanogaster.
Prosophila melanogaster.
Prosophila melanogaster.
Prosperial Endopherygota: Diptora; Brachgeera; Muscomorpha:
Progresial Prosophilidae: Drosophila.
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51, Hismatches 185: Indois
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"Here" mach. 1227"

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## SUMMARIES

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APPLICANF: Byatt, John C.
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APPLICANT: Mathialagan, Nagappan
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ITTLE OF INVENTION: MUSCLE AND PAY DEPOSITION
                                                                     301 AGCTAGAAGAGAGAGATTCTTCAATATTCHGAAGGAAAATGCTTCHGAATGTAGAATTC 360
                                                                                                                                                             44. AAAYAATTAAGAAAGITTGAAGGGAAAATATAAAATTTI CAAGATTAAGGAATTGAGAA 126
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OTHER INFORMATION, Clone ID, 62 LIBDOSR SEE of P. HO
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CUENIN: ALTITATE & RIPREF - 02,30,30,30,31
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Sequence 14521, Application IIS/02660252
Fatent No. US2002013713941
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CURRENT FILING DATE: 2001-09-24
NUMBER OF SEQ ID NOS: 15112
                                                                                                                                                                                                                                                                                                                       481 ATAATGCAAAATAAACIGAA 500
                                                                                                                                                                                                                                                                                                                                                                  481 ATAA1GCAAAATAAAC1GAA 500
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APPLICANT: Tab, Nemaking
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Sequence 12412, Application 79,779742355. Patent No. 0820020137139Al

05-09-960\*352 12412/c

APPLICANT: Warren, Wesley C.

CENERAL INFORMATION

Lac, Nemphins

APPLICARI.

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APPLICANT: Tau, Nebabine APPLICANT: Tau, Nebabine C.
APPLICANT: Epart, John C.
APPLICANT: Mathialasan, Negappan
APPLICANT: Mathialasan, Negappan
TITE OF INVENTION: MUSCLE AND FAI DEPOSITION
FILLE OF INVENTION: MUSCLE AND FAI DEPOSITION
FILLE OF INVENTION: MUSCLE AND FAI DEPOSITION
FILLE OF PERPORTE: 15411 On APPLICATION NUMBER: US, 70, 74 Ke, 3 kg.
CUBRENT APPLICATION NUMBER: US, 70, 70, 74 Ke, 3 kg.
NUMBER OF SEG ID NOS: 15112
SEQ ID NO 8: 15112
APPLICANT: Máthialagan, Nagappan
FTILE OF INVENTION: NNGELEC ADD OTHER MODES ASSOCIATED WITH LANDALICH AND
TILLE OF INVENTION: MISSIE AND FAI DEPOSITION
PILE REFERENCE: 16511.006/37-21(10298)C
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52.8%; Pred. No. 0.77;
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VPHER INPSEMATION: Clone ID: 36-LIB3058 032 01 KI ALZ
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US-09-960-352-12412
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                                                                                                          CURRENT APPLICATION BUNDER, US/09/960,352
CURRENT FILLING RATH: 2001-09-24
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Patent No. 0820020137139A1
                                                                                                                        NUMBER OF SEQ ID NOS: 15112
FEMALE | 12412
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Matches 95, Commontive
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                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches 106; Conservative
                                                                                                                                                                                                                                                                          ORGANISM: Bos taurus
                                                                                                                                                                                                                                                                                                                                                                                                           Pest Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                               Ouery Match
                                                                                                                                                                                                                                                 TYPE: DNA
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82592 AACTAITTAAACATAAAAATAATITCAALAAAATCATGAAGTAAAGTATAAAAAAA 82651
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 159 TGCALGCTGAGTATGALGAATTTLAAAAGCGACTCACATCLAGTCACCTCG-TGALGAAA 217
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Matches 165; Conservative 0; Mismorth 65;
                                                       Corry Mat.).

8-46, Scort 41.8; DB 10; Lebath 414;
Best Local Similarity 46-54; Prof. N., 2.2;
Matches 146: Conservative 6, Wishattines 137; Undels 2;
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APPLICANT SACKEL MASAHIRA

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APPLICANT SACKEL STATE STA
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SOFTWARE: PatentIn Ver. 2.1
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US-09-960-352-652R
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                                                                                                                                                                    APPLICANT: Walled, Wesley C.
APPLICANT: Tao, Nengbing
APPLICANT: Mathialagan, Negappan
TITLE OF INVENTION: NUSCLEIC ACLD AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND TITLE OF INVENTION: MUSCLEIC AND PAY DEPOSITION
TITLE OF INVENTION: MUSCLEIC AND PAY DEPOSITION
TITLE OF INVENTION: MUSCLEIC AND PAY DEPOSITION
TITLE OF INVENTION NUMBER: US/09/960,352
CURRENT PILLING BATE: 2501.09.24
MUNBER OF SEQ ID NOS: 15112
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Patent No. US20020137139A1
Patent No. US20020137139A1
PAPLICANT: NewMATION, Wesley C.
APPLICANT: Has, Nempting
APPLICANT: Byatt, John C.
TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND FILE REFERENCE: 16511.066/37-27 (10298)C
CURRENT FILEN USANIES. USYMONOMIAS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                215 AAAGSATAAGGALAAAAALUGIGAAALGCIGAGAAAAQQATGGATAAATTATGTATAAAG 274
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            395 ATTTICCAACATGAAGCAACTCAGAAATTCTAITTACAGACATAGGCTCATTGIGTGAAA 454
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             U: Gaps
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Best Local Similarity 47.5%; Pred. No. 1.3;
Matches 124, Consertative v. Namatches 137, Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME/KEY: unsure
CCATION: (75),(90)
OTHER INFORMATION: unsure at all n locations
OTHER INFORMATION: Close iv: 25 Libsob?-Ul8-Q1-KI-Gj
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       455 AAAGTTATTCAAGGCALTATT 475
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      86 ACTAACCCTCNATACCTTAIT 66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM: Bos taurus
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212 ATGAAAGGALAAGGATAAAAATICTGAAATCCTCAGAAAACCAFGGAFAAATTAFCTATA 271
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                                                                     l; Gaps
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                                                                                                                                                                                                                                                                                                                                          294 ОЭЛОВАЛОВОЛОГОЛАСЛАТАЛАЛАТАЛАВАЛТАТАЛАЛАЛАЛАЛАЛАЛАЛАЛАЛАСА
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                     8.3%; Score 41.4; DB 10; Longth 440;
59.2%; Pred. No. 2.7;
Foc. 9; Mismatches 126; Indels I
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: MCCARTHY, JUSTIN
APPLICANT: CURBELL, BARBARA
APPLICANT: CURBELL, BARBARA
APPLICANT: CURBELL, BARBARA
APPLICANT: CURBELL, BARBARA
APPLICANT: CHUBLICAN: METHODS FOR IDENTIFYING IMHIBITORS OF
TITLE OF INVENTION: NEUROSMAL DEGENERATION
CHRENT AFLICAT: M MTMERE TS CO. 1754, 949
CHRENT FILLO DATE: 2000-01-04
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2001-01-04
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; Sequence 8, Application US/09754949
; Patent RC, USD0/20015949A1
                                             130.04
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APPLICANT: WATER, WESLEY C.
APPLICANT: TAO, NORDEDING
APPLICANT: BYALL, JOHN C.
                                           Similarity 59.2
28, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          : LOGATION: (5842)...(5935)
NAMEZKEY: Intron
: LOGATION: (5214)...(5690)
(18-09-754-949-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                451 GAAAAAAGIIAHIGA 465
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Patent No. ESDNOZNIN5949A1
GENERAL INFORMATION:
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                                                                  Matrice 128,
                       Ouery Match
Rest Laral S
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TITCH OF INVESTIGATION ACTO ANY STREET RESIDENCY ASSISTED WITH LAVITATION AND
TITCH OF INVESTIGATION RESIDENCY DEPOSITION
TITCH OF INVESTIGATION ASSISTED AND FAIR DEPOSITION
TITCH REPERENCE. 16511.006/57 21(102/6);
CURRENT APPLICATION NUMBER, US/04/56, 53
CURRENT APPLICATION NUMBER, US/04/56, 53
SEQ. ID NO 15014
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APPLICANT: Byall, John C.
APPLICANT: Byall, John C.
APPLICANT: MATHALAMAC. Modepoin
FILE OF INVENTION: MATHALAMAC. MODEL AND STREET BOR
TITLE OF INVENTION: BASHI AND FAI DRIVELITON
FILE REFRENCE: 16511,006/37-21(10298)C
CURRENT FILING DATE: 2001-09-24
PURRENT FILING DATE: 2001-09-24
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48.1%; Pred. No. 2.6;
tire (); Mismitthey 120; (nde)s ().
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OTHER INPORMATION: Clone ID: 64-LIB3058-048-Q1-KI-H8
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                       397 TITICGAACATGAAGCAACTCAGAAATICTATTIACA 432
                                                                                                                                                      Sequence 15014, Application US/09968352
Patent No. US20020137139Al
GENERAL INFORMATION:
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Parent Be regeogotistion:
GENERAL INFORMATION:
                                                                                                                                                                                                                       APPLICANT: Warren, Wesley C.
APPLICANT: Fac, Nebalina
APPLICANT: Byatt, John C.
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Matabos 117: Coscerna
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                                                                                                                                     US-09-960-352-15014/c
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APPLICANT: Wastron, Wesley C. APPLICANT: Marron, Wesley C. APPLICANT: Tao, Nengbing APPLICANT: Tao, Nengbing APPLICANT: Tao, Nengbing APPLICANT: Mathialagan, Nagappan TITLE OF LNVENTION: MUCLEIC ACID AND OTHER MOLECULES ASSOCIALED WITH LACIATION AND TITLE OF LNVENTION: MUCLEIC ACID AND FAT DEPOSITION FILE FEETERS: 151, 100, 37-11 (10.29), 25 CRENENT APPLICATION NUMBER OF 18,74,74,76,352 NUMBER OF SILING BALE: 1501-09-24 NUMBER OF SILING BALE: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   215 AAAGGATAAGGATAAAAATTCTGAAAATCCTCAGAAAACCATCGATAAATTATCTATAAAG 274
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           335 GGAAAATGCTTCTGAATCTAGAA1TCAAACAATTAACAAGTTTGAAGGCAAAATAAAGA 394
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   395 ATTITCCAACAIGAAGCAACICAGAAATTCTATTIACAGACALAGGCTCATIGIGIGAAA 454
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0; Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               117 TOTCITCTATAGAAGAAGACAAGCCTTTTGATTGGGCCGTCTGCATGCTGAGTATGATG 176
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Matches 162: Conservative 0, Mishatches 2007 Indels
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ORGANISM: Bos taurus
: OTHER INFERMATION: CLOSE ID 15 LIR3058-052-01-K; D1:
US-09-960-352-3400
                                                                                                                                                                                                                                                                                                                                   ORGANISM: Bos taurus
OTHER INFORMATION: Chare 10, as Liber's with 51
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Patent No. US20626137139A1
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APPLICANT: Tao, Nembing
APPLICANT: Tao, Nembing
APPLICANT: Byart, John C.
APPLICANT: Mathialagan, Nagappan
TITLE OF INVENTION: MUSCLE AND FAT DEFOCILES ASSOCIATED WITH LACTATION AND
FITTH FOR BANDWITTON: MUSCLE AND FAT DEFOCIATION
FITTH FOR PREPERIOR: 16511,006,37 21 (10298)C
CHERRIC APPLICANT: WINNER: 16511,006,37 21 (10298)C
177 ANTIFORMUL MODEL METALLOW THE FOR LARGE AND MEMORATED 236. III THE FEET OF THE FOREST FOR THE FEET OF THE FEET
                                                                 227 ONJETTT PROMEMETAL PANAMELIN CLAIMMARAANIANOMS SAGASTIN PANAME 296
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9, 3038atime 153; indels 0;
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O'THEP THE PROPERTY OF JUNE 10: 31 LIBRAGE WIS QUINTIBLES
OF 460-342-7186
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: Sequence 7186/c
: Patent no. 0820020137139A1
: GENERAL INFORMATION:
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3 Patent No. US2 ** 24132237A1
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177LE OF INVLATION, ARE DIAGRESES OF OVARIAN CANCER
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NUMBER OF SEQ ID NOS: 10912
SOFTWARE: F9815EQ for Windows Vorsion 4.0
SEQ ID NO 7175
                                                                                                                                                CURRENT APPLICATION NUMBER: US/09/867,701
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Patent No. US20020142981A1
APPLICANT: Aglate, Paul A.
APPLICANT: Jones, Robert
APPLICANT: Harlocker, Sus
                                                                                                                                                                                                                                                                                                                         ; ORGANISM, Numb. subject
US-09-867-701-7175
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Sequence 427, Application US/09880107

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APPLICANT: Horne, Dercil

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CURRENT FILMS APPLICATION NUMBER: US/09/880,107

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SOFTWARE PAPELICATION WORLS: 3950

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(without alignments) 6411.280 Million cell updates/sec January 4, 2009, 11-09:20 : Search time 23:917 Seconds Run on:

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## SUMMARIES

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| 6         38.8         7.8         415. 4         US-08-998-416-186         Sequence 196, 38.3           8         38.6         7.7         648. 4         US-08-99-416-595         Sequence 595, 39.3           9         38.2         7.6         6213. 2         US-08-99-416-595         Sequence 595, 39.3           10         37.4         7.5         94.7         C213. 2         US-08-924-170.         Sequence 14. April 13.4         Sequence 14. April 13.4         Sequence 14. April 13.4         Sequence 14. April 13.4         Sequence 15. April 13.4         Sequence 15. April 13.4         Sequence 6. April 14. April 13. April 14. April                                                                                                                                                                                                                                                                                                                                                                                                                         |                | 5        | 39.4           | 7.19   |         |                 |                     |                   |
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| 8 38.2 7.6 1177 2 98.99.2770 3 sequence 1, no. 27.2 7.6 27 1 sequence 1, no. 27.2 7.6 27 1 sequence 1, no. 27.2 7.6 27 1 sequence 1, no. 27.4 7.5 9636 1 08-08-324-1708-1 sequence 1, no. 27.4 7.5 9636 1 08-08-324-1708-1 sequence 1, no. 27.4 7.5 9636 1 08-08-324-1708-1 sequence 1, no. 27.4 124.2 5 sequence 2, no. 27.4 8634 1 08-08-920-812-6 sequence 2, no. 27.4 8634 1 08-08-920-812-6 sequence 2, no. 27.4 8634 1 08-08-920-812-6 sequence 6, no. 27.4 8634 1 08-08-920-812-6 sequence 6, no. 27.4 8634 1 08-08-920-828-6 sequence 17.8 8634-86-838-838-838-838-838-838-838-838-838-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Ç/             | 7        | 38.6           | 7.7    | 3       | ₹†              | US-08-998-416-595   |                   |
| 9         27         8         7.6         67.1         85-juvenee 1, Augustee 14, Augustee 14, Augustee 14, Augustee 14, Augustee 17, Augustee 1                                                                     |                | œ        | 38.2           | 3.5    | 1177    | €1              | 08-08-892-770 3     | *                 |
| 10   37.4   7.5   2447   2   GS-00-1014-969-14   Sequence 14,   37.4   7.5   2447   2   GS-00-324-1704-1   Sequence 11,   3.3   3.4   7.5   9636   1   GS-09-324-1704-1   Sequence 11,   3.3   3.4   7.5   9636   1   GS-09-324-1704-1   Sequence 11,   3.7   7.4   3279   5   FOT-1059-1   GS-09-324-1704-1   Sequence 22,   3.4   7.4   8654   1   GS-08-920-812-6   Sequence 63,   3.4   7.4   8654   1   GS-08-920-812-6   Sequence 64,   3.4   7.5   8654   1   GS-08-920-812-6   Sequence 64,   3.4   7.5   8654   1   GS-08-920-827-6   Sequence 64,   3.4   7.5   8654   1   GS-08-920-828-6   Sequence 64,   3.5   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6   3.6      |                | 3        | ٠              | ٠,٠    | 2:0     |                 | 98 64 254 875 1     | _                 |
| 11   37.4   7.5   96.86   1   05-08-324-1708-1   Sequence 11, A   27.4   27.5   96.86   1   05-08-324-1708-1   Sequence 11, A   27.4   27.4   27.4   27.4   27.5   27.4   27.5   27.4   27.5   27.4   27.5   27.4   27.5   27.4   27.5   27.4   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5   27.5    |                | 10       | 37.4           | 7.5    | 2147    | C1              | US-09-014-969-14    | -1                |
| 12   37.4   7.5   90.6   4   90.6   411   1   80.5   90.6   41   1   4   4   4   4   4   4   4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | O              | 1        | 37.4           | 7.5    | 9636    |                 | US-08-323-170H-1    | _                 |
| 14   37   7.4   1242   8   PCT 1059   0.037   4   8   8   9   PCT 1059   0.037   4   8   8   9   PCT 1059   0.037   2   8   8   9   9   PCT 1059   0.037   2   8   8   9   9   PCT 1059   2   8   8   9   9   PCT 1059   2   8   8   9   9   9   PCT 1059   2   8   9   9   9   9   PCT 1059   2   9   9   9   9   9   PCT 1059   2   9   9   9   9   9   PCT 1059   2   9   9   9   9   9   9   PCT 1059   9   9   9   9   9   9   9   9   9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | t              | .4       | C)             | L'.    | 30 36   | ٠,٠             | 1 11 11 11 11 11 11 | _                 |
| 14         37         7.4         3279         5         PCT-U893+0.077         2         Sequence 2, A           16         47         7.4         8654         1         08-04920-812-6         Sequence 6, A           17         47         7.4         8654         1         08-08-921-177-6         Sequence 6, A           18         47         7.4         8654         1         08-08-921-177-6         Sequence 6, A           19         47         7.4         8654         1         08-08-921-177-6         Sequence 6, A           20         36.6         7.3         24.85-6         1         Sequence 6, A           21         36.4         7.3         24.85-6         5.93         1         Sequence 6, A           21         36.4         7.3         24.9         9.8         9.9         1         Sequence 6, A           22         36.4         7.3         24.9         9.8         9.9         1         Sequence 6, A           23         36.4         7.3         4.0         0.8         9.9         416.53         Sequence 6, A           24         7.3         4.7         4.0         0.8         9.9         416.53         Sequ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                | <u>~</u> | 3.7            | ۲.     | C1      | u i             | PCT US9: 0:077 4    | -                 |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                | 14       | 3.7            | 7.4    | 3279    | u i             | PCI-0894-04077-2    | c 1               |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                | 12       | 47             | 7.4    |         | -               | US-08-920-812-6     | Ġ                 |
| 17   37   7.4   8654   1 08-08-921-177-6   Sequence 6., A   19   37   7.4   8654   1 08-08-362-5770;-6   Sequence 6., A   26   26   26   26   26   26   26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                | 16,      | 47             | 7.4    |         | _               | US-08 920-827-6     | Ġ                 |
| 18         37         7.4         8654         1         US-08-954-5770-6         Sequence 6, A           20         36.4         7.4         8654         2         US-08-920-828-6         Sequence 6, A           20         36.4         2         24.8         4         US-08-920-828-6         Sequence 6, A           21         36.4         7.3         24.9         4.0         US-08-920-828-6         Sequence 1, A           22         36.4         7.3         530         4         US-08-921-111-682         Sequence 682, A           23         36.4         7.3         530         4         US-08-91-111-682         Sequence 682, A           24         36.4         7.3         544         4         US-08-91-111-682         Sequence 683, A           24         36.4         7.3         544         4         US-08-91-111-682         Sequence 683, A           25         36.4         7.3         547         4         US-08-91-111-682         Sequence 15, A           26         36.4         7.3         547         4         US-08-91-111-682         Sequence 17, A           27         35.2         7.0         232.2         2         CS-08-127-13         Sequence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                | 1,       | 4.7            | 7.4    |         | -               | US-08-921-177-6     | ď.                |
| 13   37   7.4   8554   2   US-08-920-828-6   Sequence 6, A   26   36.5   57.3   2435   4   US-08-920-828-6   Sequence 7.3   2435   4   US-08-93-1   Sequence 7.3   Sequence 7.3   22   36.4   7.3   927   4   US-08-928-111-682   Sequence 5.35, 2.3   36.4   7.3   6474   4   US-08-947-823   Sequence 7.3   Se   |                | 9        | 17             | 7.4    |         | -               | US-08-362-5770-6    | Ġ                 |
| 26 36.6 7.4 2435 4 08 09 306 593 1 Sequence 17, A 36.4 7.3 2435 4 08 09 328 -111.682 A sequence 6882, 21 36.4 7.3 637 4 08 08 994 416 735 A sequence 5.85, 24 36.4 7.4 6474 4 08 08 94 18 75 5 Sequence 155, 24 36.4 7.4 7.4 7.4 0.8 08 94 18 7.7 157 A sequence 175, 24 36.4 7.3 7.195.2 3 08 947 82.1 A sequence 1.9 A sequence 1.0 A sequence |                | <u>.</u> | 17             | 7.4    | 8554    | 7               |                     | ģ                 |
| 21 36.4 7.3 530 4 05 05-328-111-682 adjustice 682, 23 36.4 7.3 530 4 05 05-328-111-682 adjustice 682, 23 36.4 7.3 6474 4 05 08 994 416 535 adjustice 155, 24 36.4 7.3 51952 3 05 08-947-627 159 adjustice 175, 25 36.4 7.3 51952 3 05 08-947-627 119 adjustice 11.9 Adjustice 11.9 36.3 51.3 1914.3 4 05 09 119-474 119 adjustice 11.9 36.3 51.3 1914.3 4 05 09 149-474 119 adjustice 11.9 36.3 51.3 51.3 51.3 51.3 51.3 51.3 51.3 51                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                | -<br>    | 36.6           | ŗ.     | 2435    | ₹,              | 09 306              | _`                |
| 22 36.4 7.3 927 4 95 08 998 416 535 Sequence 535, 23 36.4 7.4 6474 4 03 08 961 527 155 Sequence 535, 24 36.4 7.4 51952 3 98 997 62.1 3 dequence 1.75, 25 35.2 1.45 4 95 08 94 947 62.1 3 sequence 1.7, 3 25.2 7.0 194.4 95 08 947 8268 13 Sequence 1.3, 27 35.2 7.0 2229 2 08 08 982 232 13 Sequence 13, 27 35.2 7.0 2229 2 08 08 982 232 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1              | 7.1      | 36.4           | 7.3    | 0.850   | 4               | 09-328-111-         | 682,              |
| 23 36.4 7.3 6474 4 US 08 961 527 155 Sequence 155, 24 36.4 7.3 51752 3 US 58.947 823 1 Gagnetic 1 Al. Al. 25 36 7.2 1145 4 US 59 1477 119 Sequence 119, 25 35.2 7.0 191.4 2 US 59 882 232 13 Sequence 13, 27 35.2 7.0 2229 2 US 58 982 232 13 Sequence 13, 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 5              | C 4      | 36.4           | 7      | t-100   | ٠.              | 08 358 416          | 535,              |
| 24 36.4 7.4 1952 3 08 08 947 823 3 Advention of J. P. S. 36 7.2 1143 4 08 08 119 476 119 8 Advention 119, 25, 35, 4 7.1 19124 2 08 08 482 2828 13 Advention 13, 27 35.2 7.0 2329 2 08 08 982 282 13 Advention 13,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Ü              | <u>~</u> | 36.4           | ۲۰     | 6474    | <del>- ;-</del> | OR 961 527 1        | 155,              |
| 25 36 7.2 1342 4 98 09 149-475 139 Scipienice 139, 25 35,4 7.1 19124 2 08 09 497 9268-13 Scipienice 13, 27 35,2 7.0 2329 2 08 08 982 232 13 Scipienice 13,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | U              | 54       | 36.4           | r-     | 51355   | r               | 08 - 947 8          | 1, Ap.            |
| 25 35.4 7.1 19124 2 08 09 497 9268-13 Sugneries 13, 27 35.2 7.0 2329 2 08 08 982 232 13 Sugneries 13,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                | ŭ.,      | 36             | . i    | **      | <del>v)</del>   | 05 119              | Ξ                 |
| .2 7.0 2329 2 US 08 982 242 13 Sequence 13,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Ċ,             |          | 45             | Γ.     | 42.16.1 | €1              | 08 187              | _                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                | 27       | C1<br>C2<br>C3 | C:     | 5353    | < 4             | 08 98E              | 2                 |

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| C 29 11.8 7.0 682 100.03 764 100 8 6 29 30 34.8 7.0 643 1 00.04 764 100 7 0 6 31 32 34.8 7.0 2141 1 00.04 74 100 7 0 6 32 34.8 7.0 2141 1 00.04 48 148 22 0 6 32 34.8 7.0 2141 1 00.04 48 148 22 0 6 34 34.8 7.0 2141 1 00.04 48 148 22 0 6 34 34.8 7.0 2141 1 00.04 48 148 22 0 6 34 34.8 7.0 2141 2 00.04 48 148 22 0 6 34 34.8 7.0 2141 3 00.04 47 42 2 0 6 34 34.8 7.0 2141 3 00.04 47 42 2 0 6 34 34.8 7.0 2141 3 00.04 67 100.2 4 10.04 34.8 7.0 2141 4 00.04 67 100.2 4 10.04 34.8 7.0 2141 4 00.04 67 100.2 4 10.04 34.8 7.0 2141 4 00.04 67 100.2 4 10.04 34.8 7.0 2141 4 00.04 67 100.2 4 10.04 34.8 7.0 6188 4 00.04 764 100.2 4 13.8 7.0 6188 4 00.04 764 100.3 4 14.8 7.0 6188 4 00.04 764 100.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ALCOURSE RES | BESULT 1  US-08-22-44-11/2  US-08-22-45  SCHULT AND APPLICATION US/0823-245:  FALCOIL NO PERMITTIN USE  APPLICANT: BORNER, F.  APPLICANT: AD ANDRESS:  APPLICAN |

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APPLICANT: Lynn Dourette-Stamm et al 1.00 STOCKTES NIZATING 10-31A777 AC 2011 TO THE AN WORLD AND ACTOR AND PHEKAPEULICS TO STATING TO STATING FILE REFERENCES AND PHEKAPEULICS FILE REFERENCES AND THEKAPEULICS.
  28. ADACT MUCHALIANACTIACHAGNORIANGTICCHGANIACTICGAAATAAAIOCH 445
  346 CTGAATCTAGAATTCAAACAATTAACAAAGTTTGAAGGGAAAATAAAGAATTTTGCAACA 405
   226 ALMANAMITCIGAMALCCICAGNANAGCALGGATANATTATCTATANAGANTANGACOY 285
  o: Galas
  209 CIGALGAAAGGTAAAGGATAAAAATTCIGAAATGCICAGAAAAAGCATCGATAAATIADOT 268
   329 FORGARGAMANA GOLFOLOMATO LAGARIL DARROMA LINGMANTILLOMAÇOLOMA CON
  9.5%; Score 42.4; DH 2; Length 19124;
50.0%; Pred. No. 0.16;
ative 0, Mismatches 106; Indels 0;
  7.9%, Score 39.6, BB 4. Length 1056; 47.9%; Pred. No. 0.4;
  0; Mismatches 124; Indels
   406 TOAACCAACTCAGAAATTCTATTACAGACAT 437
  CORRENT AFLICATION MORBER, US/79/134,001C CORRENT FILING DATE: 1998-08-13
  PRIOR APPLICATION NUMBER, US 60/564,964
PRIOR FILLING TAME: 1997-11-08
PRIOR FILLING TAME: 1997-11-08
PRIOR FILLING TAME: 1997-08-14
  US-09-134-001C-2655
: Sequence 2655, Application US/09134001C
   MCANISM: Staphylococomo epidermidis
TANTACAMOTOR THROUGH TO NOT THE
                               LENGTH: 19124 base pairs
                SEQUENCE CHARACTERISTICS:
   Conservative
  Matches [14] Conservative
   As 731 2020 Thi NGS 1 5674
No. 2445
   STRANDEDNESS: single
   muchic acid
   MOLECULE TYPE: CDNA HYPETHYPE: NO
   Linear
  Local Similarity
hes 105, conserv
  Opery Match
Best Local Similarity
   GENERAL INFERMATIENT
  Ž
  Patent, No. 6380370
  55 09 134 001C 2655
  3 08 487 8202-13
   LENGTH: 1056
   Query Mateh
  TYPE: DNA
   NEMBER OF
   Satishes
   ã
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952 AAGAATTAAACAAAATGGATAGTGATGAAATTCAACATGTAAGGAGGAGCAATATTACAAG 1021
   216 AAGGATAAGGATAAAAATTCTGAAAATCCTCAGAAAACCATGGATAAATTATCTATAAAGA 275
  276 AATAATAGETAGATIGAEGAALAGAAGIAGAAGAGAAGAAGIITGIIGAALAITCEGAAG 335
   336 GAAAATGCTTCTGAATCTAGAATTCAAACAATTAACAAAGTTTGAAGGCAAAATAAAGAA 395
   396 ITTTCCAACATGAAGCAACTCAGAATTCTATTTACAGACATAGGCUCATTGTGTGAAAA 455
   U; Gaps
  7.9%, Score 39.4; DB 4; Length 1956;
46.5%, Pred. No. 0.52;
   0, Mismatches 151; indels
   456 AAGTTATTCAAGGCALLAUTILAGCALAATGCAAAATAAAC 496
  COUNTRY: USA
2172: 2172: 2312
COMPUTER READABLE PCHM:
MEDIUM TYPE: FLORBY disk
COMPUTER: Apple Macintosh
COMPUTER: Apple Macintosh
SOFTWARF: MIGROSOFT WOLD
CURRENT APPLICATION DATA:
PLINAL CALLON NÜMBEE: US-ON-YAKA, ROCH
   APPLICANT: Fatrick E. L.:I'
APPLICANI: Christian F. Ockenhouse
ITILE OF INVENTION: SEQUESTRIN
NUMBER OF SEQUENCES: 4
CORRESSONDENCES: 4
ADDRESSEE: JOHN MOTAN
STREET: USA MENC MCHAN JA
CITY: FORT DETRICK, FREDERICK
SIATE: MARYLAND
  US-09-134-001c-1541
; Sequence 1541, Application US/09134001C
                                       Sequence 1, Application US/Un5598968
Patent No. 6310046
  NAME: Moran, John
REGISTRATION HUMBER:
REPERENCE/DOCKET NUMBER:
TELECOMMUNICATION INVOKMATION:
TELEFONE: (301) 619-2065
TELEFAX: (301) 619-771
INPORMATION FOR SEQ 1D NO: 1:
   ATTORNEY/AGEN! INFORMATION.
   SEQUENCE CHARACTERISINGS.
LENGTH: 1956 base pairs
TYPE: Nucleic acid
STRANDEDNESS: Double
   Best Local Similarity 46.3
Matches 130: Conservative
   CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
  GENERAL INFORMATION:
APPLICANT: Patrick
APPLICANT: Christi
   Linear
  FILING DATE:
  FILING DATE:
RESULT 4
US-08-559-896H-1
   ; TOPOLOGY;
US-08-559-895B-1
   Query Match
   RESULT 5
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   Óδ
  gq
  qq
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221 TAAGGATAAAAAIIPTGAAAATPPTFAAAAAAAAAATGAIAAAATTATGIATAAAAGAAAAA 280
  281 CAGROAGEICALGAATAGAAGGTAGAAGAGAGAGTTTOFFGAATATTGTGAAGGAAAA (4)
  341 perfectonaletachantenanalantinachangtitgaagschahalbangaaltiic 400
   U: Caps
  7.9%; Score 39.4; DB 4; Length 2637;
48.8%; Pred. No. 0.55;
i?C 0. Mismatches III; Indels u
   APPLICANT: 14.1.16-sea, Peter
APPLICANT: Poblement, Sablee
APPLICANT: Steiner, Sablee
APPLICANT: Moby, Christine
APPLICANT: Word and Jureen
APPLICANT: Wrethie, Philipp
APPLICANT: Revebile, Philipp
APPLICANT: Revebile, Philipp
APPLICANT: APPLI
   Patentin Release #1.0, Version #1.30
   1671 TGASAASAATGAATAGASIAFTAAATGGGTAGAF 1767
   401 CAACATGAAGCAACTCAGAAATTGTAITTACAGACAT 437
   SEE: No. 6239264artis Corporation
: w654 contwalls Road
Research Triangle Park
No. 6239264th Carolina
   SOPTWARE: Patentin Release #1.0, v
CURRMATAPIDICATION DATA:
APPLICATION ROBER: US/08/998,416
FILING DATE: 24-DEC-1997
CLASSIFICATION: 435
PHIOR APPLICATION DATA:
  . OPPARISM: Ctaple, Locoted epidermidis US-09 134-0010-1541
  MEDIUM TYPE: Floppy disk
COMPUTEN. IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
  Combornating
  COMPUTER READARLE FORM:
MEDIUM TYPE: Floppy o
  APPLICATION NUMBER.
  Local Similarity
es loc. Commerce
GENERAL INFORMATION:
  No. .
  27709
   ADDRESSEE:
   TYPE: DNA
  COHNIRY:
  Owery Match
  STATE
   LENGTH:
  Best Loc
Matches
  RESULT 6
   90
   Οy
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THE FOR THE FORM THE 
   2.40 - AAAT ECTOAAA FOOT OASAAAACOA FORATAAA FEATAAAAAAAA TAACAOOAAAA - 289
  290 FOATCAATAGAAGCTAGAAGAGAAGTTTCTTCAATAFTCTGAAGGAAATGCTTCTGA 349
   395 FAAAAATAATAAFITACAAFATFIAAAFAAAFITAAAFTAATGTTTATAATAATAATATTA 336
  350 AFCTAGAATTCAAACAATTAACAAAGTTTGAAGGGAAAATAAAGAATTTTCCAA 403
   TITLE OF INVENTION: GENORIC DIA SEGUINCES OF ASSEVTA GOSSIVELE TITLE OF INVENTION: ARE USED THERESY
  7.8%; Sevire (8.8) 18.4; Labarth 615; 47.9%; Prrod. 86; 0.56; [gat. p. Plymith object [2]: typic]; c
  Patrutin Release #1.0, Version #1.70
  s: No. 6239264artis Corporation
3054 Cornwallis Road
  APPLICATION MUMBER: UG/CB/7908,418.
FILMO DATE: 24-1475-1992
CLASSIFICATION: 435
   COMPUTER: IBM PC COmputable OPERATING SYSTEM: PC-DGS/MS DOS
   Sequence 595, Application US/08998416
Patent No. 6239264
  APPLICATION NUMBER: CH 4"16,"5
  No. 6249264th Carolina
  APPLICANT: Philippson, Peter APPLICANT: Polimans, Kainer APPLICANT: Stelner, Sabine APPLICANT: Wohl, Christine APPLICANT: Wendland, Jurgen APPLICANT: Knechtle, Philipp
   Rebischung, Corinne
   Research Injangle Park
  18,24]
   TELECOMMUNICATION INFORMATION:
TELEPHONE: 919-541-8587
FELEFAX: 919-541-8689
   ToPoLoGY: linear
MOLEYULE (YPE: DNA (genomic)
ORIGINAL SOURCE:
  Best Local Similarity 47.98;
Matches 112: Cashiyatiga
FILING DATE: 41-DEC-1996
ATFORBING/ACPUT INFOSKATION.
   Floppy disk
  NUMBER OF SECUENCES: 1152
  Timothy
  REGISTRATION NUMBER: 38
   INFORMATION FOR SECTION ROS. SEQUENCE CHARACTERISTICS:
   LENGIH: 615 base pairs
TYPE: ancleic acid
  CURRENT APPLICATION DATA:
  STRANDEDNESS: single
  CORRESPONDENCE ADDRESS:
  COMPUTER READABLE FORM:
   PRIOR APPLICATION DAFA:
   ORGANISM: PAGIO74RP
   GENERAL INFORMATION:
   Molds, J.
  CLASSIFICATION:
   USA
   MEDIUM TYPE:
   FILING DATE:
  18-08-948-416-595/-
  27709
   11S-158-948-416-186
   ADDRESSEE:
  COUNTRY:
  STREEL
   Usery Mateh
  STAIR
  FESHIT 7
   ò
   3
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21D ATCAAACCATAAGCALAAAATICTGAAATGCTTAGAAAACCATTGATAAATTATGATA 271
  272 AAGAAATAAGAGGGAGAGTGAT GAATAGAAGCTAGAAGAGAGAGAGTTTCTTGAATATTG 330
  331 HGAAGGAAAATGCTCTGAATCTAGAATTCAAACTTAACAAAGTTTGAAGGCAAAATA 490
  391 AAGAATTTTCCAACATGAAGCAACTCAGAATTCTATTTACAGACAFAGGCTCATFGTGT 450
   221 ACAAAATAATAAATATTAATCAAGATAAAGTTAATAGTGGTAATTATACAAAGCA4G1AA 16.2
   STEEL ST
  Owery Match 7.7%; Score 18.6; DB 4; Lenath 658; Best Local Similarity 48.1%; Pred. No. 0.63; Wismatches 179; Esergative 0; Mismatches 149; Indeks
  TITLE OF INVENTION. Improved Promoters for Enhancing Plant
TITLE OF INVENTION: Productivity
  451 GAAAAAAGITAFFCAAGGCATTAFIIITAGCATAAFGCAAAAFAAACTGA 499
   STOLEM. FO DOS/MS-DOS
Patentin Release #1.0, Version #1.40
  Townsend and Townsend and Chew LLP
Two Embarcadero Center, Bighth Floor
  HR/CB/862,770
   Sequence 8, Application US/98892770
Patent No. 5962670
  TELECOMMUNICATION INFORMATION: 7ELEPBONE: 919-541-8587
   COMPUTER: IBM PC compatible
  38,241
  APPLICANT: Walling, Linda L. APPLICANT: Pautot, Veronique APPLICANT: Gu, Yong-Qiang
  MOLECULE PYPE: DNA (genomic)
  CALTAN NOMBER - USZAB
G DATE: 15-JUL-1997
  Floppy disk
                  ATTORNEY, AGENT INFORMATION:
  APPLICANT: Chao, Wun Shaw
  Timothy
  CURRENT APPLICATION DATA:
  HOME THE
  INIGERALION FOR SEQ ID NO. SEQUENCE CHARACTERISTICS:
   LENGTH: 658 base pairs
   TELEPBONE: 919-55.
TELEPBONE: 919-541-8689
  single
   NUMBER OF SEQUENCES: 1
CHRESPANDENCE ADDRESS:
  COMPUTER READABLE FORM:
  REGISTRATION NUMBER:
   : ORGANISM: PAG1408RP
US-08-598-416-595
   San Francisco
   nucleic acid
   California
  OPERATING SYSTEM.
  Linear
  94111-3834
  GENERAL INFORMATION:
   CLASSIFICATION:
   OKIGINAL SOURCE:
   1.5A
   STRANDEDNESS:
FILLING DATE:
  Melds
  FILLING DATE:
   MILLIAM LITHE.
  ADDRESSEE:
  SOFTWARE:
  1 PPOLICY:
   COUNTRY:
   US 08-892-770-3
  STREET
   RESULT 8
  33
   ć
   Š
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ALEGREY, AGENT INFORMATION:

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295 AATAGAAGGTAGAAGAGAAGTITGITGATATTGTGAAGGAAAATGGTTGTGAATGTA 354
  251 AAATAAAGAAAAGAAAATGGAGGGAGCTTGAAAGTTGGGATGGAAATGATTTAAAATTTG 310
  355 GAATTCAAACAATTAACAAAGTTTGAAGGCAAAATAAAGAATTTTCCAACATGAAGCAAC 414
  Gaps
   Query Match
7-64: Secre 38.2; DB 2; Lenath 1177:
Best Lovil Similarie; 57.7; From the best T3: Conservative 0; Mismatches 58: Indels 0
Matches T3: Conservative 0; Mismatches 58: Indels 0
   58; Indels
   /mote= "tomato acidio leucine
aminopeptidase 2 (LapA2) promoter
   APPLICANT: Bradshaw, Marite
APPLICANT: Bradshaw, Marite
APPLICANT: Bradshaw, Marite
APPLICANT: Broad, Julian
IITLE OF INVENTION: Expression System for Clostridium
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
   SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER, US/CWY.USD.U/5
                       REGISTATION NUMBER. F # 1,220.
REFERENCE/FORTI NUMBER. 533070 0721000S
TELECOMMUNICATION INFORMATION.
TELEPHONE. (415) 576-0200
FELEVAX: (415) 576-0300
INFORMATION FOR SEQ ID NO. 3:
SEQUENCE CHARACTERISTICS:
  0; Mismatches
  F. Floppy disk
IBM PC compatible
SYSTEM: PC-DOS/MS-DOS
   ADPRESSER: Quarles & Brady
STREET: 1 South Pinckney Street
                  P-41,261
  Sequence 1, Application US/09056075 Patent No. 5955368
GENERAL INFORMATION:
  ATIGRNEY/ARTHI IIN JEMAILUN.
NAME: SCAY, Micholas J.
REGISTRATION NOMBER: 27386
REFRENCE LOTTH NOMBER: 2500
TELEPHONE: 608-251-5000
TELEPHONE: 608-251-5166
INFORMATION FOR SEQ ID NO: 1.
  MOLECULE TYPE: DNA (genomic)
   "not bot
NAME: Quine, Jonathan A. REGISTRATION NUMBER: P-4
  nucleic acid
   ZIF. 53701-Z113
COMPUTER READABLE FORM:
MEDIUM TYPF FlorEy d
  LOCATION: 1.1177
OTHER INFORMATION:
OTHER INFORMATION:
OTHER INFORMATION:
   APPLICATION NUMBER, FILING DATE:
   415 TCAGAAATTCT 425
  371 AAAGAAAAACT 381
   linear
   OPERATING SYSTEM:
  STRANDEDNESS:
  CLASSIFICATION:
  Madison
   SO
  NAME/KEY:
   COMPITTER
  US-08-892-770-3
   LENGIH.
  09-056-075-1
   COUNTRY:
   STATE:
   õ
  QQ
   δλ
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212 ATGARA CERTARACHIARRANI STEGNAM (ST. CASANAM CATOSHIARALIA CATA
  277 AANARASSAANANNA IA 1741 IA — ATAMAANI ASAA IAAA IAAA IAAA IAAATI 9311 AATAT 528
   229 TOLGAASGAAAAAAGSTISLAGAALGIAGAALLGAAAGAATTAACAAAGITIGAAGAXZAAAA 388
   389 TAAAGAATTIICCAACAIGAAGCAACTCAGAAATTCTATITACAGACAIAGGCI771161 448
   HAMILYED, ass. Feature
DOCALLON: 7770 and 7770 a
  Softer Co
  7.6%; Score 37.8; DB 2; Londth 5243;
49.4%; Pred. No. 1.6;
ive 0; Mismarchec 127; Indels ;
  APPLICANT: MICOSA ACHIDELH
APPLICANT: LAVAILIE, Edward R.
APPLICANT: LAVAILIE, Edward R.
APPLICANT: Racio, lisa A.
APPLICANT: Merberg, David
APPLICANT: Merberg, David
APPLICANT: Spatifical, Virioe
APPLICANT: Spatifical, Virioe
APPLICANT: APPLICANT: Merberg, Maintee
APPLICANT: Moratio, Michael J.
TITLE OF INVENTION SPORPED PROTEINS AND FOLYMOOLE/FIDES
TITLE OF INVENTION BROGATING THEM
NUMBER OF SPORPED PROTEINS AND FOLYMOOLE/FIDES
NUMBER OF SPORPED PROTEINS AND FOLYMOOLE/FIDES
  CAMPATED MARABLE FIRES.
MEDIUM TYPE: Floppy disk
COMPATEN: TEM PC COMPATIBLE
CYPSATEN: STOTTH 1-1 1.1, MS-DOS
SOPTWARPE PALCELLE Release #1.6, Version #1.40
  E: Genetics Institute, Inc.
87 CambridgeDark Oring
  CURRENT APPLICATION (AIA:
APPLICATION NUMBER (2003) 011,050
   14. Application HS/09Al49Ag. 5965337
  MOLECULE TYPE: UNA (genomic)
  ATTORNEY/ASSENT THE EMALTION:
NAME: Springer, Suzanne A.
REGISTRATION NUMBER: 41,323
   Similarity 49.48;
  NEKAL INFORMATION:
APPLICANT: Jacobs, Kenneth
   $244 base pairs
  449 GIGAAAAAAGITAITCA 465
   nucleic acid
SDNESS: double
SEQUENCE CHARACTERISTICS
   COKRESICADINGE ADDRESS:
  linear
  STREET: 8/ ...
   U.S.A.
  CLASSIFICATION:
   STRANDEDNESS:
  02140
  FILING DATE
   ADDRESSEE:
  TOPOLOGY:
  *FSULT 10
JS-09-014-969-14
  COUNTRY:
   Query Match
   PEATURE:
  Sequence 14
Patent No.
  GENERAL
```

```
11.
   Ę.
  3
   APPLICANT: Williamson, Kim C.
APPLICANT: Kaslow, David C.
FITLE OF INVENTION: Clouing and Expression of Plasmodium
LITLE OF INVENTION: Lalieiparom Transmission Blocking larget Autigen, F15230
CORRESPONDENCES: 4
  231 AATTIOTOAAATOOTOASAAAAGGAFGATAAATTAFOTATAAAAAABAAGAAGAAGT 299
   291 CATCAATAGAAGCTAGAAGAGAGAGATITCTICAATAFICTGAAGGAAAAATGCTTCTGAA 350
   SCHO
   Ċ
  7.5%; Score 47.4; DB 3; Length 2447;
   indo)s
  351 TOTAGAATTCAAACAATTAAGAAAGTTTGAAGGCAAAATAAAGAA 195
  COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-LOS/MS-DOS
SOFTWARE: Patentin Rolebase #1.0, Version #1.30
OURERT ARELIANTE LATA.
APPLICATION NUMBER: US/08/120.170B
FILLES DATE: 10.001-1994
   Mismaterhos 117.
  Townsend and Townsend and Crew LLP
   1.6;
   Two Embarcadero Center, 8th Floor
  15280-11:14.03
   Pred. No.
   US 08,431 434
   Sequenced | Application (SZO02) 1300
Patent No. 5734372
   REGISTRATION NUMBER: P-41,261
  REFERENCE/LOCKET RUBBER, 015.
TELECOMMUNICATION INFORMATION,
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQUENCE 11.
SEQUENCE CHARACTERISTICS:
   <u>:</u>
[ELECOMMUNICATION INFORMATION:
[ELEPHONE: (617) 498-8284
            TELEPHONE: (617) 498 8284
TELEPAX: (617) 876-5851
INP-GRATI'ON FOR SEQ ID NO: 14:
SEQUENCE CHARACLERISTICS:
LENGTH: 2447 base pairs
   Best Local Similarity 47,68;
   COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
   FILING DATE: 29-JAN-1993
ALIORNEY/AGENT INCCRMATICH.
   LENGTH: 9636 base pairs
   Jonathan A
   Matches 107; Conservative
   TYPE: nucleic acid
STRANDEDNESS: double
  PRIOR APPLICATION DATA:
   San Francisco
  424
   APPLICATION NUMBER:
  nucleic acid
   MOLECULE LYPE: CDNA
  STATE: California
  Linear
   94111-3834
  GENERAL INFORMATION:
  CLASSIFICATION;
  420
   Ourne,
  05-08-423-170H-170
  ADDRESSEE:
  FOROTOGY:
   US-09-014-969 14
  COURTEE.
  Query Match
  TYPE:
  RESULT 11
  3
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Patent No. 64100000
GENERALINFORMATION:
AMPLICANT: Williamson, Kim C.
AMPLICANT: Kaslow, David C.
APPLICANT: Raslow, David C.
APPLICANT: Fallon Cloning and Expression of Plasmodium
  253 CATCGATAAATTATGTATAAGAAATAAGAGCCAGACTCATCAATAGAAGCTAGAAGAGA 412
  7.5%; Score 37.4; DB 1; Length 9636;
53.8%; Pred. No. 2.2;
tive 0; Mismatches 66; Indels 0; Gaps
   PIR GAAGETECTEGAATATEGEGAAGGAAAATGCETCEGAATCTAGAATTCAAACAAFTAAGA PPZ
  151 CATTEATEAAAACAAAAAGAAAATATAGGATCAAGAAGGATAAAAGGAIGGIACAAGGAA (2)
  Patentin Release #1.0, Version #1.30
  5: Townsend and Townsend and Crew LLP
Two Embarcadero Center, Eighth Floor
  15280-11311008
   CURRENT APPLICATION DATA:
ACTULCATICK NUMBER, US,78,7954,441
FILING DATE: 20-00T-1997
CLASSIFICATION A24
PRIOR APPLICATION DATA:
  AFFLICATION NUMBER. US 68/010,409
111:NG : ATL. 20-JAN-1993
ATGANDY/ASIBH INFORMATION:
  US 08/323,170
   COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
   373 AAGTITGAAGGCAAAATAAAGAA 395
  ; Sequence 1, Application US/08954441
; Patent No. 6316000
   38,440
  PERTERNAÇÃO CRET NUMBERO (1) THE LECOMMUNICATION INFORMATION:
                 Republicar linear MotbCULE TYPE: DNA (qenomic)
  MOLECULE LYPE: DNA (genomic)
   TELEFRONE. (415) 576-0200
THILEFAX: (415) 576-0300
INFORMATION FOR SEC ID NO: 1:
   FILING DAIE: 13-00T-1994
PRIOR APPLICATION DAIA:
   NAME: Einborn, Gregory P. REGISTRATION NUMBER: 38,4
   Floppy disk
  SEQUERCE CHARACHERISTICS:
LENGTH. 96:36 base pairs
   77; Conservative
   single
STRANDEDNESS: single
   San Francisco
  COMPUTER READABLE FORM:
   149..9556
  APPLICATION NUMBER:
   nucleic acid
   Calitornia
  west Local Similarity
  linear
  94111 1844
  SOL
   NAME/KET CDS
   STRANDEDNESS:
   USA
   MEDIUM LYPE:
  NAMEZKEY:
LOCATION:
   53 58 954 441 1/C
  SOFTWARE:
   US-08-423-170B 1
  COUNTRY:
   EOPERIORY:
  Query Match
   STAIE:
  FEATURE:
  FEATURE
   Matches
   RESULT 12
```

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151 GGGCCGTCTCCALGCTGAGTATGATGTTTAAAAGCGACTCACALLAGTCASTTCST 210
  FIGURE TO STANDARD THE THE THE TERM TO STANDARD TO STANDARD TO STANDARD TO STANDARD THE STANDARD TO STANDARD TO STANDARD THE STANDARD STANDARD TO STAN
  PCT-US93-03077-2
   TOPOLOGY:
  FCT-0893-03077-2
  COUNTRY:
  LUNCTHE
  STATE:
   RESULT 14
  Matches
  <u>а</u>
  0
   ..
O
  0; Gaps
  253 CATCGATAAATTATCTATAAAGAAATAAGAGCCAAGACLAATTAATAAAACOTAAAAAAA 312
  313 GAAGTELCLICAASATTGFGAAGGAAAATGGTTGLGAALCLAGAATTGAAAGAATTAAGA 372
   151 CATTTATIAAAAGAAAAGAAAATATACGATCAAGAAGGATAAAAGAATGGTAGAAAA 92
  0; Gaps
  7.58, Soute 37.4, DB 4; Length 9636;
53.88; Pred. No. 2.2;
alive U, Mismatches Db; Indels O;
   Sequence 4, Application ECTIUSSSESSES ABBRILL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Board of Festivity, the University of Texas System APPLICANT: Gaynor, Richard B.
   Match 7.4%, Score 37, DB 5, Length 1242; Secrit Similarity 19.2%, Fred No. 1.3, e.g. 100; Longth 1242; SS 97; Conservative 0; Mismatches 100; Indels
   APPLICANT: Wu, Foon Kin
TITLE OF INVENTION: PROTEIN CELLULAR FACTOR USEFUL FOR
ITTLE OF INVENTION: REGULATING GENE EXPRESSION
  SOFTWARE. TELEGICIE PALGASE #1.8, Version #1.25
CURRENT APPLICATION DATA.
APPLICATION NUMBER. PCI/US95/U40/7
FILING DATE: 19990331
  NAME: Kammerer, Patricia A.
REGISTRATION NUMBER: 29,775
REFERENCL/DACHEI NOMBER: U16D27UPCT
TELECOMNONICATION INFORMATION:
TELEPHONE: 713-787-1540
   PPIGE AFFLICATION DATA.
APPLICATION NUMBER: US. 1992
FILING LAIE. April 2, 1992
ALFORNEY AGENT INFORMATION:
   SEE: Arnold White & Durkee: P.O. Box 4433
Houston
   COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC.DGS/MS-DUS
  373 AAGTTIGAAGGCAAAATAAAGAA 395
   31 AAATAAAAAATAAAAAAAAA
  8: Floppy disk
IBM PC compatible
  1242 base pairs
NUCLEIC ACID
   Conseivative
  SEQUENCE CHARACTERISTICS:
  INFORMATION FOR SEG ID NO:
   unknown
  713-749 2679
; LOCATION: 149..9556
US-08-954-441-1
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MEDIUM TYPE: Floppy of
   CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold Wh
  NUMBER OF SEQUENCES:
  Local Similarity
as 77, Conserva
   unknown
  CLASSIFICATION.
   OSA
   STRANDEDNESS
   STALE.
COUNTRY: US
77210
   PCI-US93-03077-4
   ; TOPOLOGY:
PCI-US93-03077-4
  TELEFAX:
  Query Match
  LENGIH:
   Ouery Match
   Matches
  Matches
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151 GGGCGGTGTGTATGATATGATTTTAAAAGTGATGA VICIATIFAQUEST 210
   211 GALGAMAGNATAANDALAMAAAH CEGAMAHDECEN MAAAAN MAGALAMATTAL 270
   APPLICANT: Board of Reqents, The University of Texas system APPLICANT: Saymor, Richard B.
APPLICANT: We Feel Rin Fig. 1997 FOR THIS OF INVENTIVE B. PROFILE OF LAWINGTON. PROFILE OF LAWINGTON. PROFILE OF LAWINGTON.
  Match
Local Similarity 49.2%; Prod. No. 2.2;
es 97: Conservative 0; Mismatches 100; Indels
   COMPUTER: Floppy disk

COMPUTER: HAM FC compatible

OPERATING SYSHEM: PT-To(SYMS-DAS

SOPEMARE: Latentin Release #1.0, Version #1.25

CUMERN: APPLICATE: BAIA:

APPLICATE: APPLICATE: APPLIA
  CLASSILLATION DATA

APTICYL WITHERS SALES 652,025

PILLOT WARFEL APIL 2, 1992

APPRICATION THE PROCESSIL AS 1892

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ENGINEER WARFEL WARFEL 25,775

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  UIFEETOPET
   NUMBER OF SEGENCES: 7
OPERISE TRIBLES AND AND AND ADDRESSES OF A STREET: P.O. BOX 4433
  Sequence 2, Application AcT089360077 GENERAL INFORMATION:
  INFORMATION FOR SEQ IN NO. 2:
   271 AAAGAAATAAGAGGCAG 287
   729 TGAGGCACAGGAACCTC 745
  NUCLEIC ACID
   18808661
   COMPUTER READABLE FORM: MEDIUM TYPE: FLOPPY
  unknown
   MOLECULE TYPE: CDNA
   CLASSIFICATE N.:
   Houston
  Texas
  FILLING DATE:
  STRANSFIRM
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2293 ARTITICETTAATETAATAAAARIEMAAYTAAAAAAAAATATTITICGAAAAAATTITAC 2352
1977 COTOGRINGIGATAGAAAGAACHACHGAFOTICATAAAGAATGATGAAAGGATAG 2036
   2353 TACATITITATATATAAAAAGITTATATAAAAGTAGGAUTTITATATATATAT 2412
  261 AATTATCTATAAASAAATAABAASTSAAATGA ESA BABAASSI AGAAGAGAAALEE 320
   Query Match 7.4%: Scoré 47; DB 1; Length 8654;
Best Local Similarity 52.2%: Pred. No. 2.7;
Matches 82; Conservative 0; Mismatches 75; Indels 0; Caps
   APPLICANT: ohno, Tsuneya
APPLICANT: Matsuhisa, Akio
APPLICANT: Uchara, Hirotsuan
APPLICANT: Soji
ILTLE OF INVENTION: Prope for Diagnosina intectious Disease
  ADDRESSEE: Marshall, "Toole, Gerstein, Murray & Horun
STREET: 6400 Sears Tower, 233 South Wacker Drive
   COMPUTER: 18M PT Computible
OPERATING SYSTEM: DC-POS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
  2413 APCHAIGAATAAGGGTFAGTTATATAATAAGGGA 2449
   381 AGGGAAAATAAAGAATITTGCAAGATGAAGGAAGTGA 417
   ORGANISM: Staphyloroceus epidermidis
: SIRAIN: Clinical Isolate SE-22
OS 08 920-812-6
   19036/32120
  CoUNTRY: United States of America 21P: 60606-6402
   APPLICATION NUMBER. 05/08/920.812 FILING DATE: 29-A03-1997
   APPLICATION NUMBER: US 087362,577
FILING DATE: 27-MAK-1995
ATFORNEY/AGENI INFORMATION:
   Sequence 6, Application US/08920812
Patent No. 5763188
   NAME: Rin-Laures, Li-Hsien
REGISTRATION NUMBER: 33,547
   FELECOMMUNICATION INTERNATION: TELEPHONE: 312/474-6300 FELEFAX: 312/474-0448
   TELEX: 25 4856
INFORMATION FOR SEQ ID NO: 6:
  2037 TGAGGCACAGGAAGCIG 2053
  MEDIUM TYPE: Ploppy disk
   Genomie DNA
   REFERENCE, AMORER.
   LENGTH: 8654 base pairs
TYPE: nucleic acid
  271 AAAGAAATAAGAGGCAG 287
  SEQUENCE CHARACTERISTICS:
  STRANDEDNESS: double
  NUMBER OF SEQUENCES; 25
   COMPUTER READABLE FORM:
   PRIOR APPLICATION DAIA: APPLICATION NUMBER: 1
   CLASSIFICATION: 435
   Linear
  GENERAL INFORMATION:
APPLICANT: OHIO, T
  Illinois
   Chicago
  TOPOLOGY: Line MOLECULE LYPE: GORCE:
   US-08 920-812-6
  RESTLI 15
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Search completed: January 4, 2003, 15:12:05 Job Lime : 56.917 sees

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Copyright (c) 1993 - 2003 Compugen Ltd.
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OM nucleic - nucleic search, using sw model

Run on:

January 4, 2002, 10.57.01 , Search time 109.50/ Seconds (without allgaments) 10282.476 Million cell updates/sec

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Minimum DB seq length: 0 Maximum DB seq length: 2000000000

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Maximum Match 100% Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is defived by analysis of the total score distribution.

| Description                        | Chemically treated Tumour suppressor Signal transduction Chemically treated numen metastasis a Human metastasis a Human gene regulat Tumour suppressor Human immune syste |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SUMMARIES<br>1D                    | ART7-04-80<br>AAS4-6-7-46<br>ABE 2507<br>ABE 2505-4<br>ABE 2505-4<br>ABE 34-77<br>AASE 14-00<br>AASE 38-37<br>ABE 38-37                                                   |
| DB                                 |                                                                                                                                                                           |
| %<br>Query<br>re Match Length DB 1 | 23 33 32 52 52 52 52 52 52 52 52 52 52 52 52 52                                                                                                                           |
| s<br>Query<br>Match                | 0.11<br>0.11<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10                                                                                                              |
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Nucleic acid, useful for diagnosis and therapy of diseases associated with cell signalling e.g. cancer, comprises chemically modified generate

| 18   47   46   46   475   22   24   24   24   24   24   24   2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |                        | 3 B G         | 1671<br>5300<br>14520                   | 222            | AAC76706<br>ABL33095<br>ABN80146 | Human, 1988x - 4852261<br>Human, Indiano System<br>Human, chamber - 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                        | 5             | 15732                                   | 7.7            | AAS45388                         | Chemically m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 16   47   6   6   6   6   6   6   6   6   6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |                        | ي ي<br>و د    | 15732                                   | 51 5<br>N C    | AMK28233                         | DNA transcription                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 17   47.8   9.6   8205   24   AM133886     18   46.8   9.4   8572   24   AM134886     19   46.8   9.4   8572   24   AM134886     21   46.8   9.4   8742   24   AM134846     22   46.8   9.4   8742   24   AM134644     23   46.8   9.4   844   22   AM346596     24   46.8   9.4   844   22   AM346596     25   46.8   9.4   844   22   AM346596     26   46.8   9.4   844   24   AM132028     27   45.6   9.4   874   24   AM132028     28   46.8   9.1   4092   24   AM132028     29   45.6   9.1   4092   24   AM132028     30   45.4   9.1   11790   24   AM132028     31   45.4   9.1   11790   24   AM132028     32   45.4   9.1   11790   24   AM132028     33   44.8   9.0   6445   22   AM54608     34   44.8   9.0   6445   22   AM54608     35   44.8   9.0   6445   22   AM54608     36   44.8   9.0   6445   22   AM13204     37   44.6   9.1   1790   24   AM13204     38   44.6   9.0   6445   22   AM13204     39   44.6   9.0   6445   22   AM13204     41   41   9.0   6445   22   AM13204     41   42   9.0   6445   22   AM13204     42   44   8   9.0   6445   22   AM13204     43   44   8   9.0   6445   22   AM13204     44   44   8   9.0   6445   24   AM13204     44   44   8   9.0   6445   24   AM13204     44   44   4   8   9.0   6445   24       |       |                        | . u           | 0.000                                   | 4 5            | ABL 44175<br>ABL 70417           | Human immune syste                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                        | 9.6           | 8.205                                   | 24             | AHI.33886                        | Chemically treated<br>Human immane syste                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                        | d s           | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0   | <del>5</del> 5 | Aprolate                         | Signal Classactio                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                        |               | 0 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 4 <del>1</del> | ABI.54 350<br>ABI.5 (4.25        | Chemically treated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                        | 5.            | 7874                                    | 7.7            | ABA16664                         | Burel reference system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                        | 3 3           | 0180                                    | Š.             | API.32426                        | Hombir immune syste                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 25 46.6 4 4 4 2 20.092 22 AAS36735 24 46.6 4 4 4 2 20.092 22 AAS36735 24 45.6 4 11 22 AAS36735 25 46.4 4 11 750 22 AAS36735 30 45.4 4 11 70.22 AAS36735 31 45.2 4 0 11 70.22 AAS36735 32 44.8 5.0 641 22 AAS36737 33 44.8 5.0 641 22 AAS36737 34 45.2 4 0 675 22 AAS36737 35 44.8 5.0 641 22 AAS36737 36 44.8 5.0 642 22 AAS36737 37 44.8 5.0 642 22 AAS36737 38 44.8 5.0 642 22 AAS36737 38 44.8 5.0 642 22 AAS36737 39 44.8 5.0 642 22 AAS36737 30 642 642 642 11 11 61 61 61 61 61 61 62 62 62 62 62 62 62 62 62 62 62 62 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |                        | r dr          | 104<br>144<br>124<br>13                 | # ^<br>V A     | ABL 44 00 7<br>AASA 65 96        | Human immune syste                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                        | *<br>5        | 7575                                    | 101            | AA\$46735                        | Tunedri Suppressor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                        | <br>          | 760.97                                  | 14 c           | AAS46747                         | Inmont suppressor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                        | . 7. 5        | 7351                                    | . 0            | ABL 320.28                       | demonstration system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 30 45.4 9.1 10.25 2.2 ASSASSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |                        | 6.1           | 4964                                    | 4              | ARLIZZOGE                        | Hillian immone system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| ### 45.2 4.0 4 4.1 1790 24 ABR40056 4.3 45.2 45.4 45.2 45.4 45.2 45.4 45.2 45.4 45.2 45.4 45.2 45.4 45.2 45.4 45.2 45.4 45.2 45.4 45.2 45.4 45.2 45.4 45.2 45.4 45.2 45.4 45.2 45.4 45.2 45.4 45.2 45.4 45.2 45.4 45.2 45.4 45.2 45.4 45.2 45.4 45.2 45.4 45.2 45.4 45.2 45.4 45.2 45.4 45.2 45.4 45.2 45.4 45.2 45.4 45.2 45.4 45.2 45.4 45.2 45.4 45.2 45.4 45.2 45.4 45.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                        | T = 1         | 61725                                   | 2.2            | AAS45339                         | Chemically pretted                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 48 45.2 9.0 6145 22 ASS46547 34 45.2 9.0 6145 22 ASS46547 35 44.8 9.0 6145 22 ASS46686 36 44.8 9.0 6145 22 ASS46686 38 44.6 8.9 647 22 ASS46686 38 44.6 8.9 647 22 ASS46686 38 44.6 8.9 647 22 ASS46686 39 44.6 8.9 647 22 ASS46686 44 44.6 8.9 647 22 ASS46686 44 44.6 8.9 647 22 ASS46686 44 44.6 8.9 677 22 ASS46686 44 44.4 8.9 6 677 24 ASS46686 44 44.4 8.9 6 677 24 ASS46686 44 44.4 8.9 6 677 24 ASS46686 45 44.4 8.9 6 677 24 ASS46686 46 44.4 8.9 6 677 24 ASS46686 47 41.1 8.9 6 677 24 ASS46686 48 44.4 8.9 6 677 24 ASS46686 49 41.1 8.9 6 677 24 ASS46686 40 41.1 8.9 6 677 24 ASS46686 41.1 1 4.2 6 677 24 ASS46868 42 44.1 1 1 4.2 6 677 24 ASS46868 43 44.6 8.9 677 24 ASS46686 44 44.4 8.9 677 24 ASS46868 44 44.4 8.9 677 24 ASS46868 44 44.4 8.9 677 24 ASS46868 45 44.6 8.9 677 24 ASS46868 46 47.1 8.0 678 24 ASS4688 47 47 47 47 47 47 47 47 47 47 47 47 47 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                        |               | 7687                                    | 7.0            | ABK40056                         | Buman chemically p                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       | ~                      | 6.0           | 6145                                    | 12             | AAS46547                         | Human liminge syste                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                        | 9.5           | 1.84<br>1.48                            | 2.5            | ABL 43487                        | Human immuna eneta                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                        | ا<br>نی       | 6,76,7                                  | 2.2            | AAS46608                         | Tumori sarente service                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       | 7                      | 5             | 6.145                                   | 24             | ABL: 42972                       | Human immune syste                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| ### ### ### ### ### #### #############                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | 41                     | ≘ုဘ<br>ဘဏ     | 7447<br>6442                            | 01 E           | AAS46686<br>Anr 33778            | Tumoni suppressor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 10 44 6 8 4 1712 24 ARESEGGO 44 44 44 44 44 4 4 4 4 4 4 4 4 4 4 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |                        |               | 1000                                    | 4              | ABL: 37778                       | Buman indune syste                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 41 44 6 9 4 1772 24 ANT 22779 44 44 46 8 6 578 24 ANT 2478 44 44 4 4 8 6 578 24 ANT 2478 44 44 4 4 8 6 578 24 ANT 2478 45 44 4 4 6 6 578 24 ANT 2478 46 41 1 1 4 5 5 578 24 ANT 2478 47 14 1 1 4 5 5 578 24 ANT 2478 48 17 1 1 4 5 5 578 24 ANT 2478 48 17 1 1 4 5 5 578 24 ANT 2478 48 17 1 1 4 5 5 578 24 ANT 2478 48 17 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |                        |               |                                         | 7              | AEL32630                         | Human importe syste                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| 44 44.4 R a 6256 24 ANIJA448  15 11 1 3 3 10 2 4 ANIJA448  ALISHMENTS  ALISHME   |       | . 4                    | n c<br>n a    | 1 : U                                   | ű.             | Airl stain                       | Bran imprac syste                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 15. II I 4 % 1.87 p. 24 ARRESTO<br>ALESNMENTS  FORMACE  ARTZORNO 21 T.Latd. FIR. 5712 BP.  Cell stonylling contextion to the latter as septembered to the september of the sept |       | . 43                   | . а           | 1 (g)                                   | : ST           | AB1.24458                        | Halligh Hilbring System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| MICHANNELS  MICHAN   |       | _                      | e<br>F        |                                         | 7              | Atti. 14 14. 15                  | Thomas are as casts a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| ARIZO480: ARIZO480: ALICO480: All properties of the string   | ESULT | П.                     |               |                                         |                |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| Ol- III prop. 1917. 1011. Administration of the scale of presentation of properties of   | -     | 70480;                 |               |                                         |                |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| Call stanspiring, compaging in the late is will assimate disease national and sease unidentified.  WOOGSQUEST AL.  10-JAN-2002.  29-JUN-2000; 2000UR-1032529.  30-JUN-2000; 2000UR-1032529.  (BPIG-) EPICENOMICS AG.  CBLG-) EPICENOMICS AG.  WPT: 2002-15475520.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       | . Airboimod            | 7.1.0.1.      |                                         | E.             | 2. 2                             | The state of the s |
| Unidentified.  WC20022807 A2.  10-JAN-2002. 29-30M Z001. Z001W0-EE07471. 30-JUN-2000; Z0010E-1032529. 01-5EP-2000; Z0000E-1032529. 01-5EP-2000; Z0000E-1032529. 01-5EP-2000; Z0000E-1032529. 01-5EP-2000; Z0000E-1032529. 01-5EP-2000; Z0000E-1032529. WPT: 2002-154758/20.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       | oll sional<br>ancor: * | in the second |                                         | ÷7             | att to the                       | sking titut disease                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| #PSGBSSSRFT A2.  10-JAN-2002, 29-JUN-2001, 2001Wo-FP07471, 30-JUN-2000; 2000DE-1032529, 01-SEP-2009; 2000DE-1032529, 01-SEP-2009; 2000DE-1032529, 01-SEP-2009; 2000DE-1032529, 01-SEP-2009; 2000DE-1032529, 01-SEP-2009; 2000DE-1032529, WPI: 2002-154758/20, Nucleir acid, userpul tori diamosis and thorses.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | nidentifie             | -             |                                         |                |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| MCCORSCRAT A2.  10-JAN-2002.  29-30H 2001. 2001MO-EP07471.  50-JUN-2000; 2000HE-1042529.  01-SEP-2000; 2000HE-1042529.  (BPIG-) EPIGENOMICS AG.  GIEK A. Picponterock - Bayling E.  WPT: 2002-154758/20.  Nucleir acid, useful for diamosis and thorse.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |                        |               |                                         |                |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 10-JAN-2002, 29-JUN 2001, 2001Mor-EF07471, 30-JUN-2000; 2000DE-1032523, 01-SEP-2000; 2000DE-1032523, 01-SEP-2000; 2000DE-1032523, 01-SEP-2000; 2000DE-1032523, 01-SEP-2000; 2000DE-1032523, 01-SEP-2000; 2000DE-1032520, 01-SEP-2000; 2000DE-1000 de-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-1000DE-10   |       | 0200000000             | -q            |                                         |                |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 29-38M 2681, 2601Mo-EP07471, 30-30N-2000; 2000DE-1032523, 01-5EP-2000; 2000DE-1032523, (BPIG-) EPIGENOMICS AG. GIEK A. Piepoubrook — Bayling E. WPT: 2002-154758/20.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       | TAN-2002               |               |                                         |                |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 30-JUN-2000; Z000DE-103252). 01-SEP-2000; Z000DE-103252). (BPIG-) EPIGENOMICS AG. GIEK A. Piepenbrowk = Bayling E. WPT: 2002-154758/20.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | L4    | lasoz Nac-6            | 2001          | Firm?4                                  | _              |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| OTEMP-2000; 200002 1043826. (RPIG-) EPICENOMICS AG. OTEM A. Pieperbrock S. Bajlig K. WPI: 2002-154758/20. Nucleir acid, userpl for diamosis and thomasse scores                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | JUN-2000               | 7000          | 10325                                   | 2              |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| (BPIG-) EPICENOMICS AG.  GIRK A. Pieperbrock S Bagjing K.;  WPI: 2002-154788/20.  Nucleir acid, userpul tor diamosis and thorses as accesses.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |                        | 14            | #<br>#                                  | 5              |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Olek A. Piepenbrowk · Baylin K. WPI: 2002-154758/20. Nucleir acid, userpul tor diamosis and thomass or sinceres.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | _     | _                      | Σ             | ٠.                                      |                |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| WPF: 2002-154758/20.  Nucleic acid, userpl tot djamosis and thorisms of specimen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       | ek A. pi               | hospr         | 4                                       |                | S.                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Nucleic acid, useful to disamosis and thousang of signers and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | _     | : 2003 - i             | 758/2         | ä                                       |                |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | ucleic acid            | L useti       | 5                                       | 10.40          | Arred + bush                     | **************************************                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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Note: The sequence data for this patent is not represented in the brinted specification, but is based on sequence intermation supplied by the
  tor dispassis
   The invention relates to a necleic acid compension a sequence of at least imposes of a sequence of chemically pretreated DMA of hence associated with cell signalling. The activity of the modified sequences of the invention may be described as eyostatic. The object of the invention is to provide the chemically madified DMA of genes associated with cell signalling as well as elianomicovides, refer PMA. The more facely
  detection of worlday of proportions by the PMA. The second of particular of the cytosine methylations, as well as a method which is particularly of the lagrat family optioned to the lagrat family of the lagrat family the optioned parameters of genes associated with rell standalling. The chemically modified that provided by the invertise in greefly too discuss such as solid tunears and cancer. The sequences given in records ARIZHILAMEZHEZE represent chemically pre-treated with cell signalling.
   1199 GCCFAAPOCAATTAAFAADOGFAAAFTTAAAFAFGITAATFATATATATAAAAAAAAAGTOAT 1140
   Human: tumour suppressor gene; oncodency antitumour; cytostatic; cancer; tumour; cpd dinucleotide; statle-nucleotide polymorphism; SNP;
  357 ATTCAAACAAHTAACAAACHTTGAAGGCAAAATAAAGAATTHTGGAAGATGAAGGAACTC 416
   177 AATPTTAAAAGGGACTCACATTTAGTTAGGTGATAAAAATAAAAATTCT 236
  297 I AMARTING ANARAM SANATITING THORAS I MET INTO BARE SANATITITIS SANATITIMES. 175
  417 AGAAATHCTATTTACAGACATAGGCTCAFFGTGAAAAAAAGTTAFFCAAGGCATTAFFF 476
  200 SAAA TOLIOAAAAAA TALIAA WAALIBI TALIABAAABIBABA TIBIBABI 200
   1019 CTAAAATCTACCAAAAAAACAAAACCTCAATTAAATGTTAAAATTATATAAAAAATGA 360
  O; Cape
   tumour suppressor gene derived chemically modified sequence #470.
  / Match | 10.49, Sente 52.1; 19.24; Lorgith 9712; Lord Similarity 17.8%; Pred. No. 0.0.8;
  110401E
   Sequence 9742 HP; 2945 A; 88 C; 1819 C; 4890 %; 0 Cd.e.;
  Claim 1: SEQ ID NO 370, 24pp sequence listing: English.
sequences of genes associated with cell signalifun
  n: Mismatches 166;
  Ξ
   -
-
-
-
  AAS46746 standard; DNA; 38342 BP.
  477 IASPATANTOTANANTAN 191
   959 AAAAAAAAAAAAAA 942
   15-MAK-2001; 2001W0-EP02955.
  18 DEC-2001 (first entry)
  Conservative
   eytosine methylation; ds.
   European Patent office.
   W0200168912-A2.
  Homo sapiens
  20-SEP-2001.
  Matches 152:
   guery Mateb
Best Local e
   AAS46746,
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The invention relates to a nucleic acid comprising a sequence of BN bishes, of a sequenct of chemically preferred BMA (CF 28A) c.g. with bishalphile, of genes associated with Limour superession and uncounted by 15H and 500 are missing from 54G (actually 2.2 since mimilars 408, 15H and 500 are missing from the sequence listing) sequence (SS) and sequences complementary to (SS). The nucleic acid may be a peptide nucleic acid-oligomer (PMA) of at least 9 nucleotides and may form part of a set of probes for detecting the cytosine methylation state and/or single nucleotide polymorphisms and also to be used in an
   533 genomic sequences derived from tumbers Seq In unibers and oncogeners. Sequences with even numbered Seq In unibers are the corresponding odd numbers are the corresponding odd numbered sequence (0.9. ID 2 and IDI, ID 536 and ID 535, except for those whose partner sequence
   Franciarly of thereastly modified genes issiviated with tumour suppressor
penes and encodenes, useful in designing primers and probes for
analysing diseases associated with cytosine methylation state e.g.
   taining genetic and/or epigenetic parameters for the diagnosis
or therapy of existing diseases or the predisposition to specific
  156 GICTGCATGCIGAGTATGATGATITTAAAAGCGACICAGATCTAGITCAGGTCGTGGTGAIGA 215
  276. AA I'AAGAGCCAGAGATGAI'GAA FAGAAGCCAGAAGAGAGAAGGTTTCTTCC----AATALLCL ----
  216 AAGGATAAGGATAAAAATTCTGAAAATCCTCAGAAAACCATGGATAAATTATCTATAAAGA 275
  96 THITHITATTITTAGAAAATCTGTCLTCTATAGAAGAAAGAGAGAGCTHIGAHTGGGG 199
   discusses, by analysing optosine methylations. The parameters may be compared to another set of genetic and/or epigenetic parameters, the difference of our importance of difference of the set as a first displayer in the progressive or the set of the second of the seco
  4; Gaps
  36 APTAATAAAAGTFFCAGGAGTAAACAAAGGGAAGAAAFAGFTFFTFTAAATAGFACAAC 95
   arriches var var ing as lasks to diagrasks and/or progressis energy a
tree disadvariageous to patients. The present sequence is one of that
the assuming accommentation of the comments of the
   aria; for analysing discusses associated with cpC dinucleotides c.n. cancers and tumours. The probes can also be used in a method for
  22165 AACACCACCCEFACATAAFFFAAACATATATAAAACACATFFCAAAAAICACFFFAAACAA
  2225 FOR BATAWATER AAATSAAA TETAAATTER ATTERAATT
   10.3%; Score 51.4; DB 22; Tendth 8842;
47.4%; Pred. No. 0.057;
Live 0; Mismatches 206; Indels 4;
   of the printed specification, but was obtained in electronic format directly from WIPO at.
   Sequence 28342 BP: 12471 A, 472 G, 7153 G, 18245 I; 0 other:
   Note: The sequence data for this patent did not form part
  ttp.wipo.int/pub/jpublished_pct_sequences.
   Claim I, SEW ID No 470; 27pp; Buglish.
  2000DE-1019058.
2000DE-1019058.
  ·1019174.
  1043826
  Conservative
   CLEA, PEPRITHER.
   (EPIG-) EPIGENOMICS AG.
   WELL DOUBLE GLOSTE, 1981.
   2000DE
  2000DE
  2000DE
  sest Local Similarity
   and, for the sap,
  15 - MAR - 2000)
06 - APR - 2000)
  07 - APR - Z0100;
  01 - SBP - 2000;
  40-007-Mif-0)
  is missing).
  Matches 189;
  Query Match
   cancer
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The present invention relates to chemically modified DNA sequences of signal transduction associated genes. The DNA sequences are chemically and infinite dusing a solution of bisulphite, Mydrogen suitphite or chemically displayed a solution of bisulphite. Also disclosed are obliquousleotides and/or DNA oliquences for detection the evication methylation state (CpG islands) of these for extensive that the displaying a state of the signal transduction, epigenetic parameters of genes associated with signal transduction, the genomic DNA can be obtained from cells or cellular components which contain DNA, e.g. cell lines, blogsies, blood, sputum, stool, urine, cerebral-sphal fixid, tussue embedded in paraffin such as tissue from histologic object slides, and all their possible combinations. The sequences of the invention are useful for the diagnosis and therapy of diseases associated with signal transduction e.g. solid tumours and cancer. AMRXISES ARRAISES represent chemically pretested empanying communication of an entire of the invention are useful.
  Human; signal transduction associated gene: rytosine mothylation state; the island, signal transduction associated disease, solid tumour; cancer; antitumour; cytostatic; mutant; ds.
   their complementary sequences.
Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from the
  22045 AATTAAATTTCAAAATTAICTAAAATAFAAAACAFTAALATATAAATTATAAA 21986
   Oligonucleotide for diagnosis and thurby of diseases assurated with signal transduction e.g. cancer, comprises chemically mudified genomic sequences of genes associated with signal transduction
332 GAAGGAAAAIGCITCIĞAAJCIAGAAITCAAACAATTAACAAAGITIGAAGGCAAAATAA 391
  sequences of different genes associated with signal transduction, or
  Signal transduction associated gene modified complementary DNA #175
   Sequence 38342 BP, 12471 A, 472 C, 7153 G, 18246 I; U other;
   392 AGANTITTOCAACAIGAAGAAGICASAAAILGIALIIA 450
  Claim 1; SEQ ID No 350; 24pp; English.
  olek A, Piepenbrock C, Berlin K;
   ABK31507 standard; DNA; 38342 BP.
   30-JUN-2000; 2000DE-1032529.
  29-JUN-2001; 2001WG-EP07472.
  01-SEP-2000; 2000DE-1043826.
   23-APR-2002 (first entry)
   (EPIG-) EPIGENOMICS AG.
  European Patent Office.
   WEL, 2002 147836,15.
   WOZUUZUUSE5-AE.
  Homo sapiens.
   03-JAN-2002.
   Synthetic.
  ABK31507;
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t. daps

Ouery Match
10.3%: Score 51.4; LB 24, Length 38342;
Best Local Similarity 47.4%; Fred. No. 0.057;
Matches 189; Conservative O: Mismatches 200, indels 4,

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The invention relates to a nucleic acid comprishing a segmence of at least 18 bases of a sense. At elementary particulated acceptures at the invention may be described as cytostatic the adolffed sequences at the invention may be described as cytostatic the subject of the invention is nucleic to previous the channels madified and at detect as a second of the collinear second as obtained they are the subject in the invention is stoned in as well as obtained they are for ENA-cliponers for the detecting cytostine methylations, as well as a method which is
22285 TOTELTARAATHOTOAAATOSAAACLITAAATTOTOATICIATAAATTAATAATAAT
   22045 AATTAAATTETAAATTATCTAAAATATAAAACAITAATATATAAATATAAATTAAA 21986
  Nucleic acid, useful for diagnosts and therapy of diseases associated with cell signalling e.g. cancer, comprises chemically modified acusaic sequences of general associated with cell signalling
  214. AARROATAARRATAAAAAT POTSAAATOOFOARAAACOATOIMTAAATTATOTARAARA 275
   TITITITIATE ITLACRARATOTOTICIACIATAGAKGAKAGANAKOO LI IGALI OGGOO 158
  232 GAAGGAAAALGCITCTGAATCLAGAALLGAAACAATTAACAAAGITTGAAGGCAAAATAA 391
  Chomically Prefiginell standling 56A sequence Complementary to∺292.
   Cell signalling: cvtosine methylation; cell signalling disease;
  Claim 1: SEM ID NO 404; 24pp-sequence listing: English.
  21985 CTAATTTCTTAAAATTCTAAACAATAAATAATTTTA 21947
  392 AGAAITITCCAACATCAACAACAACAAGAAATICTATTTA 430
  ARL705147c
ID ARL70514 standard; i2NA; 15674 BE
   hade H, Cytobiatic, ds.
   29-JUN-2001; 2001Wd EP07471.
  20- THN 2000; 2000mg-1022529.
  01-SEP-2000; 2000DE-1043826.
   01-JUL-2502 (first entry)
  C A continuedada
   (EPIG-) EPIGENOMICS AG.
   WPI, 2002 154756/20.
   W0200202807-A2.
  Unidentilied.
  10-JAN-2002.
  ABL70514:
  olek A.
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particularly suitable for the diagnosis and/or therapy of genetic and epidemetic parameters of ownes associated with cell signalling. The chamically modified full provided by the invention is acted for diagnosis and therapy of diseases such as solid uncours and cancer. The sequences given in records ABL20011-ABL206.5 repressor chemically pre-treated
  Note: The sequence data for this patent is not represented in the printed specification, but is based on sequence information supplied by the
   4653 AAAAAATGGFTAAAAAAAGTAAFAAATATAAAAACAAAAATAAAAAGFTFFCAAAFA 3594
   3773 AAAAAAAATATAAAAATITITITIAAAITAAGAAATAITGAAAGAAITITIAAAAAGA 3714
  5533 CAAATAAATITATAAAAAAAAAAATATTAAAAACTTCGAAAATTCTGGCCTAAAAATTTGAA 3474
  217 AGGATAAGSATAAAAAFFCTGAAAFFCTFAGAAAAGCAFCGATAAAFFALFFATAAAGAA 276
   497 LETGCAACATGAAGCAACTFAGAATTFEFFFTTAGAGAGATAGGGTGALFGTGAAAAA 456
   97 ITTIFFFAFTFFFACAAAATGESFOTFGTATAGAAGAAAGAAGAGGCFFFFGATTGGGGGG 156
   277 ATANGAGGANANTGALGAATAGAAGTIASAAGASANAASTITGTTGAATATTGIGAAGG 336
  337 AAAATGCTTCTGAATCTAGAATFCAAACAATTAACAAAGTTFGAAGGCAAAATAAAGAAT 396
   Ot Caps
  founds, innesses system disease, eytosine methylation; antiastimation; antiantoside antianemies, cytosiaticy mototopics, antianemies, cytosiaticy mototopics, neuropectetives anti-HIV, anticonductors applicable antiantics; antiarthrities antidiabetics antipsoriatics.
   notinitammatory, carrer, eye discapes arterieschereis, masmit, acute mycloid tekacmin, Aldeimer's discape; ADS; epilepsy, neurofibromatosis, themmatoid appoints; peoriasis; basel discase;
  10.2%; Secure 50.8; 18.2f. Length 15674, 44.9%; Prich No. 3.868,
   Sequence 19674 BP: 4711 A: 271 C: 3032 G: 7660 I: 0 other;
  indels:
  genomic DNA's of genes associated with cell signalling.
   Human immune system associated sene Shy III Will 186.
   Prod. Mu. C.R63,
0, Mismatches 237;
  ABL 12363 standard; DNA; 15674 BP
  26-MAR-2002 (first entry)
  Matches 193; Conservative
  European Patent office.
   4413 AATAATTTAA 4404
  Local Similarity
   457 AGTIALFCAA 466.
   Walcobbrough AD
   HOMBO Sapiens.
   Otterry Match
   RESULT 5
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04-JAN-2002.

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The present invention provides a number of human immune system associated dense which are modified by the methylation of cytosines. The sequences can be used in the diagnosis and treatment of immune system disorders,
  including eye diseases such as retinopathy, newascular glaucome and macular degeneration, arteriosclerosis, anaemia, cancer, acute myeloid leukaemia, Albremmer's disease, AlbS, epilepsy, neurofibromatosis, recempatoid arthritis, pseciasis and inflammatory/ulcorative bowel diseases. The present sequence is a dene of the invention.
   1833 ITEMOABATABATTABAABATAABABAATACTIATABATTAITAITAABATACTABABA 5004
   3593 ATAAAATTOA FITOAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAATATAAATAAATAAATTA 353
  4533 CAAATAAATETATAAAAAAAAATATTAAAAACTTCAAAAATETCTCCTCTAAAAAATTTTCAA 4474
   3713 CACACAAAACAACCACCTTATAAATAAAAATATAAAAAGTAATAAAAAACTAATAAAAACTAA
  217 AGGATAAGGATAAAAATTCTGAAATGCTCAGAAAACCATGGATAAATTATGTATAAAGAA 226
   397 HTES WASA SWAAGSAACTERAAATTETATTAGAGACA WASGELGATS OF DIGAAAAA 45%
   97 TTFFFFFATTFFGAAAATGFGTCTFCFATAGAAGAAAGAGAGCTFFGATTGGACAG 100
   277 ATAAGAGGCAGACTGATGAATAGAAGGTAGAAGAGAGAGTTTGTTGAATATTGTGAAGG 346
   Nactoric and computations transment of chemically modified acho, useful for diamosis and treatment of diseases associated with abnormal
  157 ICTOCATGOTGAGTAFGATGAATTITAAAAGGGAGTGAGTAGTAGTAGTAGGGGGTGAAFAA
   10.2%; Score 50.8; DB 24; Length 15574; 44.9%; Pred. No. 0.068;
   Sequence 15674 BP; 4711 A; 271 C; 3032 G; 7660 T; 0 other;
  Pred, No. 0.068;
0; Mismatches 237; Indels
  Claim 1: SEC IN MARKS 12pp - Sequence Listing: German.
   ARE 34477 standard: DNA: 15674 BP.
               02-JUL-2001: 2001W0-EP07547.
  30 JUN-2000; 2000DE-1032529.
  2000DE-1043826.
   26-MAR Zeoz (lirst entry)
  Conservative
   Piopenbrock C,
  (EFFE) BEFIGENOMICS AC.
  eytosine methylation
   WPI, 2002 140909/17.
  Local Similarity
   41 4 AATAAITIAA 4404
  457 ACTIAITEAN 166
   01-SEP-2000;
  Matchies 194:
  ABL: 11177;
   Querly Match
   olek A.
  <u>a</u>
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  93
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The present invention from the a number of human metastasis associated genes which are modified by Sytosine methylation. The sequences can be used in the diagnosis and treatment of cancer. The present sequence is one of the genes of the invention.
  3833 ITAAAAAATAAAAAAAAAAAAAAAAAAAAAAAATAATAAATITAAAATACTAAAAA 3774
   3713 CACACAAAAACAACACUTTATAAATAAAAAAATATAAAAAAATATAAAAAATAAATAAATAAA 3654
   365s AAAAAATCGTTAAAAAAACTAATAAATATAAAAACAAAAATAAAAACTAAACTTTCAAATA 3594
  3533 CAAATAAATITATAAAAAAAAATATTAAAAACTTCAAAATTCTCCTCTAAAAATTTCAA 3474
  157 TCLOPAT STGAGIALGATCAALTLAAAAGGACLCACALCTAGLCAGGCGTGATGAA 216
   97 ITITITATTTAGAAAATGIGTCTTCTATAGAAGAAGACAAGCCTTTTGATTGGGCGG 156
   217 AGGATAASGATAAAAATTGTGAAATGGTCAGAAAAQUATGGATAAATTATGTATAAAGAA 276
   277 ATAĄGAGGCAGACTGAIGAAFAGAAGCIAJAAGAGAGAGIIICTICAAIAFICIGAAGG 346
  337 AAAATGCTTCTGAATCTAGAATTCAAACAATTAACAAAGTTTGAAGGCAAAATAAAGAAT 396
   397 TITCCAACAIGAACCAACICAGAAATICTATITACACAATAGGCTCAIIGIGIGAAAAA 156
   New nucleic acid derived from chemically treated metastasis genes, useful for diagnosis of cancers by analysis of cytosine methylation,
  37 TTAATAAAAGTIICAGGAGTAAACAAAGGGGAAGAAATAGTIFIIITAAATAGTAGAACT 96
   Length 15674;
  Metastasis associated gene, cytostatic, gene therapy, cancer, cytosine methylation, gene, ds.
  Sequence 15674 BF; 4711 A; 271 C; 30?2 G; 7660 T; 0 other;
   Match
Local Similarity 44.9%; Fred. No. 0.668;
Ps 193; Conservative 0, Mishalches 237; indels
  Claim 1; SEQ 1D NO 30; 23pp + Sequence Listing; English.
                  Human metastasis associated gene SEQ ID NO: 30.
  Olek A, Piepenbrock C, Berlin K;
  06-APR-2650, 2030;B-1019058.
07-APR-2030, 2000;B-1019173.
07-UN3 2662, 2000;B-10320259.
01-SEP-2000, 2000;B-1043826.
   06-APR-2001; 2001WO-EP03970.
   (EPIG-) EPIGENOMICS AG.
  WFI: 2002 010522/01.
   3413 AATAATTTAA 3404
  also for treatment
  457 AGTIATTCAA 466
  W0200177376 A2
  18-OCT-2001.
   Matches
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   Op
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  Q
   qo
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The invention relates to 224 nucleic acid sequences comprising at least Selected from 43 known qenes for complementary sequences). The selected from 43 known qenes for complementary sequences). The complementary sequences. The chamical preferences for complementary sequences. The chamical preferences for complementary sequences.

Specially in the unacil or another base with hybridisation behaviour of seasofilent to unacil or another base with hybridisation behaviour of seasofilent to unacil or another base with hybridisation behaviour.

The DNA sequences of diseases for predisposition to diseases) associated with ache requiation and inchange of services associated with ache requiation methylation patterns of services and therapy of such diseases. The predict provided they are especially useful in diseases, and therapy of a service competition immensedities. The present sequence is a sathmal flow sevent-one; and therapy of a service control disease. The present sequence is a sathmal flow sevent-one; and disease. The present sequence data for this patient did not term part for the painted specialization, but was obtained in cleetionic format directly from Wipo at.

Ith wipolint/pub/published_pet_sequences
   Human; Gene regulation-associated gene; severe combined immonodel bicopay; cardiac density in Limitations regeners; Bacomphilia, Merinor synctrons asthmas. HDE synctrons conquists heart defect; Sacthmarchicen synctrons record diseases, browel maysly cardia attaraft cascular diseases. Browel and concert thyroid cancer attarage attarage and attarage immonostimularity and attarage immonostimularity and attarage immonostimularity and asthmatic nephrotropic; aynecological; anti-tumour; immunosuppressive; cytastatic,
   New nucleic acid sequences from chemically medified across associated with gene regulation, useful for analysing cytosine methylatious is reliadmosts and therapy of discases rig. severe combined immunodeficiency
   Match 9.9%; Score 49.6; DB 24; Length 5946; Local Similarity 52.4%; Pred, No. 0.11; es 132; Conservative 0; Mismatches 119; Indels i:
  Human gene regulation-associated gene oligomorpootida = 659.
   Sequence 5946 BP: 1134 A: 203 C: 1734 G. 2870 T: 5 other;
  Disclosure; SEQ ID No 363; 26pp; English.
   Berlin K;
                                       AAS61400 standard; DNA; 5946 BP
   07-APR-2000; Z000HR-1019173
20.JUM 2000; Z000H8-1055559;
01-SEP-2000; Z000DE-1043826.
  06-APR-2001; Z001WA-EP03968,
   06-APR-2000; 2000DE-1019058.
   29-JAN-ZQUZ (first entry)
  Olek A. Piepenbrishk C.
  (EPIG-) EPIGENOMICS AG.
  WF1: 2002 017470,02.
   WG200177335.A2.
   Homo sapiens.
   18-001-2001.
   AAS61400;
  Query Match
  Matches
RESULT 7
   ÷
   U; daps
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bases, of a segment of chemically protected DNA (2P DNA) e.g. with bisulphite, of genes associated will temmor suppression and concoderns having a sequence taken true. Of (a leaf); 5% since to missing the sequence is time, of (a leaf); 5% since to missing the sequence listing) sequences (SS) and sequences complementary to (SS). The norther collection by the peptide nucleic acta olivonal (PNA) of at least a nucleotides and may remain a result of a sequence in probos for deterministing the cytosine methylation state and/or right created the pelymorphicum and also to be added in as attack to analyzing discusses associated with opt dimeteratides e.g.
  Fragments of chemically modified dones associated with toward supervised
227 C POWAR WA YARSTI'TENDEST TARAKA TARAKATTI'TENAK TESAKTAK DARAK TETAK
   Human; tumour Suppressor gene; oncogene; antitumour; cytostatic; cancer; tumour; cys dinnelectide; state-nuclectide polymorphism, SMP;
   242 (0) CORONANANO PER PARATTA (OF A FARMMATEM MATCHARD) BETTAR (MITA) - (0)
  302 OCTAÇAAÇAÇAAÇETTETTÇAATATTEÇEÇAAĞAAAATGETTETGAA TETTAĞAATTE 360
   361 AAACAATTAAUAAAGTTTIJAAGGUAAAATAAAGAATTTTITUAACATGAAGTAATTAAA 420
   The invention relates to a nucleic acid comprising a sequence of 18
  qenes and oncogenes, useful in designifua primers and probes for
analysing diseases assembated with extresine methylatics state e.g.
   lumoni suppressor gene derived chemically meditied sequence #302.
  Maim I; SEQ ID No 302; 27pp; English.
  ____
   Physiological 7, Red Lin K;
   AAS46580 standard; DNA; 5989 BP.
  2000pp: 1042529.
2000pp: 1044826.
   15-MAR-2001: 2001W0-EP02955.
   15-MAR-2006; 2000DE-1013847.
06-APR-2000; 2000DE-1019058.
  2000DE-1019173.
  18-DEC-2001 (first entry)
   eytosine methylation; ds.
   (EPIG ) EPIGENOMIC'S AG.
  2216 CTCATCCTAACA 2205
  421 ALTSTAFFACA 432
  =
  WPI; 2001-602752,70
  Wo200168912-A2.
  Homo sapiens.
  01-SEP-2000;
  07 - APR - 2000;;; 40 - JUN 2000;
   20-SEP-Z001.
  AAS46580:
   dek a.
   RESULT 8
   AAS465RD
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Which
   complementary sequence of the corresponding odd numbered sequence (e.g., ID-2 and ID), ID-536 and ID-535, except for those whose partners a quence
  ascelabiling gradia and/or epigenetic parameters for the diamness and/or thereby of existing diseases or the predisposition to specific algebrases, by analysing cyclestic and/or epigenetic parameters may be compared to another set of genetic and/or epigenetic parameters may be difference as excised as basis. For diamness and/or primers events with a gradian acrosis and response to parameters. The present sequence is one of the 533 genemic sequences derived from tumour suppressor genes and
  216 AASATTAASATTAAAAATTOTAAARTT + TICAGAAAASTA DSALAAATIKSSTAA 272
  27 § NGAALIAAGABETAGAETGATGATAJAAGGTAGAAGAGAAGAAGTTETFEGAATATTETT (
  333 AAGGAAAATGCTTC1GAATCTAGAATTCAAACAATTAACAAACTTTGAAGGCAAAATAAA 392
  4; daps
   Humman, immane explan discure; rytosine methylation; antiasthmatic; antiantaries insolvotics antianaemie; cytostatic; nootropic; antianaemie; antian
  antlinflammatory, cancer, eye disease, arterioselerosis, anaemia, acuto myoloid Pokkacmia; Alzheimor's diseaso; AlbS; epilepsy; neurolibromatosis, rheumatoid arthritis, psoriasis, bowel diseaso;
cancers and tumours. The probes can also be used in a method ton
  oncogenes. Sequences with even numbered Seq 1D numbers are the
  of the printed specification, but was obtained in electronic format directly from WIPO at
  DB 22; Length 6089;
  The sequence data for this patent did not form part
   0; Mismatches 130; Indels
  Sequence 6089 BP; 1659 A; 92 C; 1394 G; 2944 I; 0 other;
   Human imment system associated yone SBQ IN Not 1810.
   45 * AAAAAGTTATTCAAGGCATTATTAGGATAAT 485
   1111 | 111111111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111
  9.8%; Score 49; DI
51.3%; Pred. No. 0.
   ttp.wipe.int.Pub.pub!!shed_pet_sequences.
   ABL 34847 standard, DNA; 6089 BP
  (0.100) 2000; 20000E 1012529.
  02 JOL 2011, 2001MG 6197547.
  est Local Similarity 51.3%;
  25-MAR-2002 (first entry)
   Matches 140; Conservative
   WOZODZOGSZK AZ
   Homor sapiens.
   is missing).
  03 JAN-2002.
   ABL (4847)
  Ourry Match
   dente: ds
  Note:
   ABL 3 18 37 /c
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   5
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   The present invention provides a member of human immune system associated denies which are modified by the methylation of cytosines. The sequences can be used in the diagnosis and treatment of immune system dissorders, including the diseases such as retirepathy, necessarilar glaucomma and marular dequestation, arterioseletosis, anaemia, concer, acute myeloid leukarmia, Alfaliar's disease, Alfalia, including the amalosis, rhounded oid arthritis, psoriasis and inflammatory/ordersive lewel
   Burner per realiza franc. TEEN Jeterilam, rytastotic, hepatotockich wilherary; antipsoriatic; antiparkinseniam; mostropic; neuroprotective; antimoriasatic second control antidial control control antidial control control antidial control control control antidial control contro
  273 ASAAATAAGAGGGAGACTOATOAATAGAAGGTAGAAGAGAGAGT HOTTGAATAITGTG 332
  333 AAGGAAAATGTTCTGAATGTAGAATTCAAAGAATTAAGAAAGTTTGAAGGGAAAATAAA 392
  393 GAATITICCAACAIGAAGCAACICAÇAAATICTATTAAÇAGACALAGGOTGATIGIGIA 452
   478 CARIALICATIAATTAAATAATTAAATAAAAATAATCCATACTIAATTATTTAGTATC 419
  Nucleic acid comprished fragment of chomically modified agency useful tor disturbancies and fragment of discasses associated with standard cyrosine methyladiton.
  SdeD :
   Score 49; DB 24; Length 6089;
Pred. No. 0.15;
   Human okty 962261 polynachastik sa pasase 809 nn using
  0; Mismarches 130. Indels
   Maim Er SPQ (D. NO 1810): Representablisting: Corman.
  Sequence 6084 PP; 1659 A: 92 g: 1394 d: 2944 T: 9 other;
  453 AAAAAGITATICAAGGCATTATTTAGCATAAT 485
  418 AAAACAATCCAFAATTCAITATTIIAACAAAF 386
   olek A. Piepeubrock C. Berlin K.
  AAC76706 standard; cDNA; 1071 BP.
  Query Match
Rest Local Similarity 51.3%;
Matches 140; Gonservative
  08-FFB-2001 (first entry)
(EPIG-) EPIGENOMICS AG.
   WPI; 2002-130909/17.
  AAC76706;
  RESULT 10
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AAC74446 TO AAV771046 opende the proteins given in AAA446 TO AAV771046 opended in the AAA771046 opended in the AAA771046 opended in the AAA771046 opended in the AAA771046 opended in the AAA77104 opended in AAA77104 opended in the AAA77104 opended
   $18 SHARAHAN, DIRAWANANANANIN NEEL AHAMAAN KATAALAANAN KATAALAA IN TOOLOOTION NEEL AHAMAANAN SALAANANAN SALAANAN SALAANA
   GR. HETT WATER TO THE EARLY FOR THE HELL WAS WATER MAKEET STANDS TO THE TOTAL STANDARD AND THE STANDARD AND 
   9.
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1.
   Novel nucleic acids and peptides derived from open reading trame X<sub>o</sub>
   Omery Mateh. 9.8%; Score 48.8; 08.21; Length 1071; Mest Local Similarity 52.5%; Prod. no. 0.1%; Matches 107; Consertative 0; Mismatches 97; Hotels or
   useful for treating care directs, preliterative disorders, neurodetentative disorders and cardiobasentar disease.
   Sequence 1071 Bb; 4r6 A; 202 C; 217 G; 265 T; 1 other;
  Claim 5: Foot (22) 4722/ 550/7pp; English.
   438 AGDITTO FOR FORMANDINA 461
11 1 1 1 1 1 1 1 200 AGAIGTLE-TUTANGANA 224
   65 APR 1969, 1985 (1972)
30-MAR-2000, 290008 (54076)
   31-MAR-Zeubit DittigWicettSco8621
   (1-MAR-14-0); 0-0)S (0)27607
(2-APR-1900; 0-0)8-01276-0
   Shinkers RA. Jearn M.
   (CURA-) TUFA-IIN TURI
   Wil, 20ve nes 02/57.
P-PSDB; AAB42497.
  05-00T-2000.
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1.51:1.1

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The present investion provides a number of human impune system associated across which are modified by the methylation of cytosines, the sequences can be used in the diagnosis and treatment of immune system disorders,
   including eye diseases such as retinopathy, necessorial glavesma and macular degeneration, arterioselerosis, anacmia, cancer, acute myclola leukaemia, Albelenera disease, AlbS, epilepsy, neurolibromatobis, reference from a contraction bowel diseases. The present sequence is a new of the incention.
  1745 AAAWWATTAAAAACCATAL WAATTIAAAAAFTAAN WA CIW WAAAAA HITAAWAAAAA 1686
  1565. daaaaaa ettitaataaaaaaaa Poaaataaaaaaaa 1506
   280 ADARCINANTICATION/TROVERSTANDAGASADAA HITTITIOAATALISTAAABGAAA 333
   340 ATGCTTCTGAATCTAGAATTCAAAJAATTAAGAAAGTTGAAGGCAAAATAAAGAATTTT 399
  400 CCARTATGAAGGAACTGATACTATTTAGAMAATGGTGATGTGGTGAAAAAAGT 459
  P. Capes
   Nucleic acid comprising transcot of chamically modified a new meeful
for diagnosis and treatment of diseases associated with abnormal
  Human; immuno system discuse, estasino methylation, antiasibadatio, and intractions described and banamic; estasi attici noottopic; and anamanic; actiosmeter for a set il HTV, and convenient, establambled in antichentation antimitation antiarthettic; antidiabetic; antipsociatio; antimitation antimitation cancer; eye discuse; antipsociatio; annual intermination; cancer; eye discuse; antipsociatio; account anymoral leukaemia. Alcheimet's discuse; AIBS; epilopsy; neuron perunal permanatosis; recumental antifiction periodics.
   Sequence 5:400 BP; 1070 A; 152 C; 1507 G; 2571 T; 8 other;
   laim ly SEG ID NO 1068; Opp + Sequency Listing, German.
   Human immune system associated gene SEy ID No; 1068
  460 TATTCAAGGCALTATTTAACATAATGCAAAATAAA 495
   Bestille K.
ABL34095 standard; DNA; 5400 BP
   12-JUL 2001; 2001W0-EP07547.
  10-JUN-2000; Z000DE-1032529.
  2000DE-104 (826
   Toral Similarity 19.00;
  Collination of the Collins of the Co
   Trapentary C.
  (EPIG-) BPIGENAMICS AG.
   eytosine methylation
  WPI; 2002-1900pmg/12.
   WESS0200728 AZ.
  Homo sapiens.
  01-SEP-2000;
  26-MAR-2002
  14-JAN - 2002.
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   ABL (30095);
   dene: ds.
   pwery Match
   dek A.
  Mat ches
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The invention relates to a nucleic acid (1) comprising a sequence at least 18 burds in length of a segment of chemically preferenced DNA (11) of general associated with development selected from 37 genes listed in the apecial acids as ACMIN, ADEN, or ACMI and comprising one of Gaseguences (ABNZ7984-ABN80333) or their complements. The invention is inseful to the diagnosts or therapy of diseases associated with developments associated with a diagnosts or therapy of diseases associated with any order of the acids of the disease related diseases. Syndromes associated with congenitual heart disease related diseases, syndromes associated with congenitual heart disease, related diseases, syndromes associated with congenitual heart disease, related to be associated with the congenitual heart disease, related to be accounted with the congenitual heart disease, related to be accounted with the congenitual heart disease, related to be accounted with the disease.
  the amplification of the 356 sequences. (if) and/or their complements and as olinemer probes for detecting the epidence methylation state and/or
   single and redide polymorphisms (SNPS).

Note: the sequence data for this patent did not form part of the printed specification but is based on sequence information supplied to Derwent by
   histone denetylation, Currarino syndrome, discuses related with the desclopment of the brain and liab girdle massular dystrophy and dwartism oligomers specific to each of the genes are useful for detecting the
   associated with development genes such as diabetes, comprises a sequence of a segment of chemically pretreated {\sf FNA} of genes associated
  methylation state of all epg dinucleotides within the 50 sequences or
   (II) and their complementary sequences, as primer oligonarelectides for
   177 AATHTIAAAGGGACTCAAAFTAGTCGGGGGGGGGATGAAAGGTAAAAATGTA 230
  9.6%, Score 48.2, 58.24, Length H920;
8.1%; Pred. No. 0.25;
ve. 0; Mismatches 148; Indels 0: Says
  Human: Everlopment: hambokox gene; HOX: diabotes: canover; apoptosis:
basi disease, epilepsy distone deacetylation; muscular dystrophy;
dwartism; single pelectide polymorphism; sur, epissise methylation;
antidiabotic; eytestatic; anticamulsant; ds.
   Ruman chemically modified disease associated gene SEQ ED No. 163.
   Novel nucleic acid useful for diagnosis and therapy of diseases
  Sequence 14920 BP; 4261 A; 171 C; 3279 G; 7209 F; 0 other;
Claim to SEL ID NO 1630 37ppo English.
   Berlin Ka
   ABN80146 standard; DNA; 14920 RP
   40-JUN 2000; 2000DE-1042529.
   02-JUL-2001; 2001WQ-EP07546.
   01-SEP-2000; Z000DE-1044826.
   48.14.
  the European Patent Office.
   15-JUL 2002 (tirst entry)
   Best Local Similarity 48.1
Matches 177, Conservative
  Ack A. Timpenbrook S.
  (EPIG ) EPPERNMICS AG.
   WFI; 2002 140908/17.
  with development
  W0200200927 - A2.
  sapiens.
   03-JAN-2002.
  ABN80146;
  Synthet ic
  Ношо
   XX111 12
   วะเพลา
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Sequences AAS45296 AAS45520 represent chowinally protreated genomic bna molecules associated with the cell cycle and specific EQ primers of the invention. The sequences are useful for detecting the methylation state of all 5p5 dinurleotides in a sequence and therefore for analysing associated diseases. By analysing nethylations in the pretreated DNA, stating diseases or the predisposition to specific diseases can be associated by parameters may be compared to another as to diseases can be ascertained. The parameters may be compared to another as basis for diagnosis and/or predistrate the diseases serving as basis for diagnosis and/or predistrate which tro diseases to patticute.
   Cell cycle; human, TpJ dinaclectide, citosine methylation, HIV) aging, thuman immunodeliciproy virus; neurodesteorative disorder; solid tumonn; graft-versus-nost disease; pomerular disease; hewy kedy disease; cancer; arthritis; arteriosclerosis; anti-HIV; neuroprotective; antiathritic; immunosuppressive; antitument; cytostatio; artipries; ordinathritis;
  1487 ATAACACAAAAAAAAAAAAGCICTAACAAAAACGATAAAAAATTATTAAAAAAACTACA 1428
   1427 ATTAAAACATAAAACCAAFTCTCATAACAAATTAAAATATACAAAATTAAAAATTAAAAACTA 1368
237 GAAATOCICAGAAAAAAAATIGAIAAATTATATAAAAAAAAAATAAGAGGCAGACTCAICAA 296
   297 TAGAAGCTAGAAGAGAAGATTTCTTCAATATTTTTGAAGGAAAATGCTTCTGAATCTAGA 356
   357 ATTCAAACAAITAACAAAGTTTGAAGGCAAAATAAAAGAATTTTCCAACATGAAGCAACTC 416
  Designing primers and probes for analysing diseases associated with cytosine methylation state e.g. arthritis, cancer, aging, arterioseletosis comprising fragments of chemically modified genes
   Chemically protreated genemic DNA associated with rell ejole #17.
   1367 ATAAAAACCATATAACCAAATATATATTACAAAATTTA 1323
  417 AGAAATTCTATTTACAGACATAGGCTCAFIGIGIGAAAAAAGTTA 461
   Claim 1: SEC ID No 93; 28pp; English.
   Olek A, Piepenbrock C, Berlin K;
   AASTARA CHANDATH INNA: 16712 PP.
   15-MAR-2000; 2000DE-1013847.
06-APR-2000; 2000DE-1019058.
07-APR-2000; 2000DE-1019173.
30-JUN-2000; 2000DE-1019273.
   15-MAP-2001: 2001W -- D102945
  01-SEP-2000; 2000PF-1043824
   18-DEC-2001 (first entry)
   associated with cell eyele
  (EPIG-) EPIGENOMICS AG.
   WPI: 2001-602751768.
   W0200168911-A2.
   20-SEP-2001.
   PCR primer.
  AAS45388;
   RESULT 14
AAS45388/C
ID AAS453
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DRA transcription associated deter, peptide nucleis acid, FRA obliquent content why exposite intentional states SNU; retrovited intention; agency designate nucleotide perpublish, addededing demonstration of the perpulsion of decorate demonstration of the content of the conten
the sequences of the invention are useful for the alabases a first appoint the invention, considerable transfer that the considerable transfer and the consistence and the consistence are consistenced to be a sequence and consistence to six solid temporals and concerns.
   06 14.60 ATTACAMONA TOAT OR ANALYSIA TO THE TOTAL OR ANALYSI (11.00 ATACAMONA)
  211 AAANNA AAGAT AAAAATTETGAAA POTTOA BAAAA OLO BAAAA BAATAA BAA
  T. Sapis
  Outery Martel, 9.6%; State 48; 10% 22, Langith 1973.;; Rest Lowel Similarity 50.4%; Prend, No. 0.20%, 10. Indels Additional 14; Conservative 9: Mismatches 140; Indels ...
  471, AAAL BERAASIATTATTIARIA KAKAMAMAA GOOTTA TELENTET TE
   Sequence 1523 8P: 4638 A: 70 C: 2672 5; 8352 1: 0 albert
   DNA trumseription associated genomic DNA #54.
  ABK2823 Standard; CNA; 15742 BF
   06 APR 2005; 20 00L-1019-58; (C) APR 2005; 20 00L-1019-5173, (C) APR 2005; 20 00L-1019-1019, (C) SBP 2007; 20 00 ER-104-626.
   06-APB grott: 20 JW + EP+4974.
  24-APR-2012 (first entry)
   A STATE OF THE STA
  (EPIG-) DE TEN-MI'S AG.
   WITH JOIL ... ... 46/12
  We-zoothyzskis Az.
  Unident if fed.
  UK-DE 301.
  Query Match
Best Local e
  ABKZBLSS
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diseases associated with DNA transcription, e.g. immunological diseases associated with DNA transcription, solid timours or cancer.

Flaim 1, SEQ ID NO 107: SEPP; Enablish.

The invention relates to a nucleic acid, which comprises a segment of the chemically prefronted DNA of series associated with DNA transcription from one of 46 segmentes, and an oligometr, in particular an oligometricitied or peptide nucleic acid (PNA) oligometricities to or is identical to the chemically prefronted DNA of acres associated with Enablish (PNA) of transcription. The set of oligometricities are useful for detecting the cytosine methyly prefronted DNA of acres associated with Enablish (PNA) in a chemically prefronted DNA of acres associated with Enablish (PNA) in a chemically prefronted DNA of acres associated with Enable Sepperator (PNA) in a chemical profession of treating diseases associated with Enable Sepperator (PNA) in a chemical DNA transcription (PNA) the methylation of the fine of a chemical DNA transcription (PNA) in a chemical DNA transcription of the disorder of the Sepperator (PNA) in a chemical DNA more profession of the Sepperator (PNA) in a chemical DNA molecules of the invention and sources ARREBIZ AND ALCOLUMNA (PNA) in a transcription associated secondar of the Sepperator (PNA) and prefer of the prince associated secondar of this potent disease. However, and the invention associated secondar of this potent disease (PNA) and a few pairs of the European Patent of the PNA) and observed disease. Burgoean Patent of the pair of the European Patent of the Operator (PNA) and a companied of the Companied DNA between the European Patent of the European Paten
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14.300 AATCCATAATTATATATATCTAATATTITAAAACCTAAAAAATAMAAAAA--AAATAAAAAA 14.243 14360 ATTAAATAAKUAATTAAAGGAAKUAWAAWAAATTAAAAAAAKATITITAWATAATAATTAOL 395 ATTITICGAAGAIGAAGGAACTGAGAAATIGTATTTAGAGACATAGGCCCATGTGTGAAA 454 335 GGAAAATGCTTGTGAATCTAGAATTCAAAAAATTTAAGAAAGTTTGAAAGAGAAATAAAAA 394 215 AAAGGATAAQGATAAAAATTCTGAAATOTOAGAAAGGATGGATAAATTATCTATAAAG 274 2: Cans Secret 48; PB 24; Length 15732; O; Wismatches 140; Indels 14182 APCATGTFACAAATFAAAAATAFAATATAAAATACATAAGTAA 14137 455 AAAGITAFICAAGGCATTATTIIAGGAFAATGAAAATAAACFGAA 500 Pred. No. 0.28; 9.68 Best Local Similarity 50.3%; Matches 144; Conservative

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RESULT 15
ARL34175 standard: DNA: 113515 BF.

XX
AC ARL34175:
XX
AC HUMAN immune system associated gene SEQ LD No: 2148.

XX
XX
XX
HUMAN: immune system disease; cytosine methylation; antiasthmatic; XX
XX
W Human: immune system disease; cytosine methylation; antiasthmatic; XX
XX
W Human: immune system disease; cytosine methylation; antiasthmatic; XX
XX
W Human: immune system disease; cytosine methylation; antiasthmatic; XX
XX
W Human: immune system disease; cytosine methylation; antiasthmatic; XX
XX
W antiarheumatic; antiarthritic; antidoabetic; antipsociatic;
XW antiantlammatory; cancer; cyc disease; arterioscierosis; abacmia;
XW actité myeloid leukaemia; Alladeim: Alladeim: System disease;
XW actité myeloid leukaemia; Alladeim: Systemiasis; bowel disease;
XW actité myeloid leukaemia; Alladeim: Systemiasis; bowel disease;
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The present investion provides a number of human immune system associated weres which are modified by the methylation of cytosines. The sequences can be used in the diagnosis and treatment of immune system disorders.
  30687 TITTELLE HELLE HEL
   including eye diseases such as retinopathy, neovascular glaucome and macular described after loss letterios. Anotherise, another action myeloud leukarmia, Alabaimer, a disease, ALDS, cellepay, neurofibromatosis, phonomatoria and inflammatory/alcorative bowel diseases. The present sequence is a gene of the invention.
   30627 ACALICH ACHTAATITHALIAATTACHTITAATHACACATAFAATTTAITHALACHAA 30568
  30507 FFFDACTFCAAAAACCAAAAAAAAHFTTAACGAAAACAALATCAACTGTAAAGCTAAA + 10448
  156 GPCTGOATGCFGAGTATGAFGAATTFTAAAAGGGACTGAOATCFAGTCAGGTGGTGGTGA 215
  276 AATAADAGEGAGACTCAFCAATAGAAGCTAGAAGAGAGAAGTTECTTCAATATTCEDAAG 🕂 🥬
  Nactors acid comprising fragment of chemically modified acno, useful for diagnosis and treatment of diseases associated with abnormal
  216. AAGGAGAAGGATAAAAATTCTGAAAGCGTCAGAAAACCAGGAGAATAAAATTATGAAAAAGA
   336 GAAAATGCTTCTGAAATTCAAACAATTAACAAACTTGAAAGGCAAAATAA 391
   Sequence 113515 BP; 35172 A; 1174 C; 22520 G; 54649 T; 0 other;
   9.6%, Store 48, DB 24, Length 113515;
  0; Mismatches 155; Indels
   Claim 1, 88g 19 MC 2148, 32pp · Sequence Listing; German.
  0.37;
   Search completed: January 4, 2003, 15:08:49
  Pred. No
   02-JUL 2001: 2001WO-EP07547.
  00 JUN 2000; JOUODE-1032529.
  01-SEP-2000; 2000DE-1043826
   est Lorai Similarity 47.6%;
  Conservative
   " Au sint with 1941
  (DE10 ) DETORMANCS AC.
  eytosine methylation
  WET, 2003 180303/17.
  Job time : 252.507 sers
   Wri200200928-Az.
     Home sapiens
  0 4 - JAN - 2002
   Matches 141;
   Query Match
   4,541.3
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GenCore version 5.1.3
Copyright (c) 1592 · 2003 Cumpuyen Ltd.
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January 4, 2003, 08.30 %, Search Lime 762.955 Seconds (without alignments) 10634.887 Million ceil updates/sec l atqtqqqqaatLattatcat......tqacaaaqatgquqqqqaqc 501 22338132 16154066 3cqs, 8097743376 residues lotal number of hits satisfying chosen parameters. US-09-776-705-3\_COPY\_15000\_15500 ôM nucleic - nucleic search, using sw modei Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries Gapop 10.0 , Gapext 1.0 Minimum DB seq length: 0 Maximum DB seq length: 200000000 TOENT LITE NOC Scoring table. Perfect score: Searched: Sequence:

еm\_esthum:\* em\_estba:\* em\_estmu.∗ em\_estov;\* Database :

cm\_gss\_mus:\*
em\_gss\_other:\*
cm\_gss\_pro.\* gb\_gss:\* em\_ass\_hum:\* em\_gas\_fun:\* em\_dss\_pln:\* em\_estiun:\* em\_estpl:\*
em\_estro:\*
em\_htc:\*
qb\_estl:\* em\_estom:\* 9b\_cst2.\* qb\_htc:\* qb\_est3:\* qb\_est4:\* gb\_est5:\* ew\_gss\_ em\_gss\_

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is defired by analysis of the total score distinbution. em\_gss\_rod:\*

|           | Description                     | HIDSREEZ BOMFLZSTF<br>ALI/4271 Tetracdon<br>ALO63921 Droscophil<br>ALI/5090 LELLGOCOPHI<br>ALI/5090 LELLGOCOPHI<br>ALI/5090 LELLGOCOPHI |
|-----------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| SUMMARTES | GI.                             | BH658662<br>CNS012GM<br>CNS0039G<br>CNS00eVL<br>CNSUCK7<br>CNS00EVL                                                                     |
|           | DB                              | 17<br>17<br>17<br>17<br>17<br>17                                                                                                        |
|           | Overy<br>Ore Match Length DB II | 821<br>1029<br>1101<br>1101<br>1632<br>1101                                                                                             |
| æ         | Pacry                           | 12.4<br>11.3<br>11.3<br>11.1<br>10.6                                                                                                    |
|           | Score                           | 56.8<br>56.8<br>55.4<br>53.4                                                                                                            |
|           | Result<br>No.                   | 0 00r<br>Huwamb                                                                                                                         |

|          |         | -    | ALL/42/i Littadon |      | THE STATE BOARD STATE |     |      | -       |      |      | THE COURT IN THE COURT | EMPONIACE PERSON | BM291477 EST578011 |              |            |         | PERSONAL SENSON |          |            |           |          |             |     |          | -    |      | · \     |               |     |             | BM290067 ES1576601 | ·             | Al.182171 Tetraenten                    | . 7  | 1 2      |          |      | Indoso in the second |
|----------|---------|------|-------------------|------|-----------------------|-----|------|---------|------|------|------------------------|------------------|--------------------|--------------|------------|---------|-----------------|----------|------------|-----------|----------|-------------|-----|----------|------|------|---------|---------------|-----|-------------|--------------------|---------------|-----------------------------------------|------|----------|----------|------|----------------------|
| CNCCTOAR |         |      |                   |      | -                     |     |      |         | _    | -    |                        |                  |                    |              |            |         | BEC-90285       |          | INVOCATO 1 |           | RM292610 | BM292688    |     | BM292204 |      |      | _       |               |     |             |                    |               |                                         |      | CNS01400 | CNS020R7 |      | ALLONDER             |
| 1.7      | - r     | 1.7  | . [-              |      | 17                    | ~-  | r-1  | ~       | 1.7  | 17   | ~                      | 2                | ſ                  | ~.           |            | ~       | n^<br>c 1       | ~        | ~          | ž         | 13       | 1915<br>### | æ.  | ~        | ~    | 17   | 13      | ~             | 5   | 7           | ~                  | - 1           | 17                                      |      | 17       | ۲.       | 17   | 3                    |
| 1085     | 1 u - 2 | 1009 | 1011              | 1001 | 1101                  | (C) | 1384 | 6.6.01  | 802  | 1101 | 464                    | 4.63             | 545                | ( -<br>1     | 632        | 6.46.   | r.<br>c.        | 678      | 647        | 750       | 753      | 76.1        | 767 | 120      | 584  | £ 27 | 1101    | 460           | 477 | 513         | 627                | ا<br>مارون    | 609                                     | 000  | 1001     | 1092     | 1101 | 197                  |
| 0.0      | 2       | 10.3 | 21                | 10.0 | 10.0                  | 5 5 | 5.0  | ئ<br>ئ  | 6.6  | 5°   | 2.3                    | 9.7              | 6.7                | 75           |            | 1.7     | 7               | 6.7      | 7.6        | 6.7       | 4.7      | J.          | 6.7 | , ,      | 5.7  | / !  | ۲.      | <u>ه</u><br>ح | 9.5 | د م<br>ا ات | <u>د</u><br>ج      | ا ب<br>د<br>د | ۲.<br>ج                                 | 5    | ر.<br>د. |          |      | 7                    |
| 52.8     | 77.77   | 51.6 | r.                |      | 50.2                  |     | 4.67 |         | 49.6 | 49.4 | 48.8                   | 48.2             | Σ.<br>Σ.           | 31 (<br>31 ) | 4 .<br>x : | 24<br>X | α<br>α          | π.<br>π. | φ.<br>Ψ.   | 48.<br>8. | 48.8     | o: .        |     | π.<br>π. | 20.0 | 4 .  | 4<br>α. | Δ ·           | 4 · | æ :         | Δ :<br>Σ :         | a :           | 2 · · · · · · · · · · · · · · · · · · · | 47.4 | 47.4     | 47.4     | 47.4 | 4.7                  |
| 7        | x       | 6    | 10                | 1    | 7                     | 13  | 14   | <u></u> | 16   | 7    | 18                     | 5-1              | 07:                | - 0          | 77         | 7 :     | st I            | 525      | 72         | 27        | 87       | T) (        | 0 : | Ţ:       | X 0  | 0.0  | 4. C    | ממ            | Ç ; | \ c         | 10 s<br>10 s       | J :           | 0.                                      |      | 4.2      | 4.5      | 44   | r.                   |
|          | د       | C    |                   | U    | U                     |     | C    |         | Ü    | ۲    |                        |                  |                    |              |            |         |                 |          |            |           |          |             |     |          |      |      | U       |               |     |             |                    |               | -                                       |      |          |          |      |                      |

# ALLIGNMENTS

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HIGSBEAZ 82 19-FTH-ZUUZ BUNHIZSIF BÖ 2 3 KH RESENZ OLDIANGE GENZE TILA E HELLS, GAA
  Riassica oleracea.

Riassica oleracea.

Pukashoa oleracea.

Pukaryada, Viriplandiae; Streptophyta, Embrajophyta: Itacheaphyta: Spermatophyta: Windplandiae; Streptophyta, Embrandiae; Core endiests; Spermatophyta: Mandollophyta; endiectyledens; core endiests; Streptophyta: Mandollophyta; Brassicalae; Brassicalae; Brassicalae; Brassicalae; Brassicalae; Brassicalae; Brassicalae; Brassicalae; Muleiae; Core (2001).

Mindollophyta: Streptophyta: Brassicalae; Carls (2001).
   9712 Modical Contor Drive, Bočkrille, HD 28859, USA. Tel: 401-848-523
Fax: 301-848-5208
Fax: 301-848-9208
Fax: 101-848-9208
Fax: 101-87-9209
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Actinopteryaii: Neopteryaii; Telesistei; Eafeleostei, Neofe eostei;
Acauthomorpha; Acanthopteryaii; Percomorpha; Terraedonilformes;
  Bernot, A., Flyamows C., Wissberg D., Restrice, D., gostfar, P., Sauthiw, and Weissenbark, J., Human gene moder estimate provided by denome wide analysis using Petraodon nigroviridis DNA sequence.
  billow, o Preffer, C., Pirbace, C., Pigner, C.,
   Roest-Croilins, H., Jaillanger, Lasilva,C., Romnean,L., Fisher,C.,
Bernot,A., Fizames et , Wissberg P. Reffer, E. gastier, P.
   Charaterization and repeat analysis of the compact genome of the
  436 OCCAAAAOGAASTAASA TAATASSASTSAAAAAAAAAATTITTITTAA SAAASTTOSSAS 435
276 OCTAAAAAATTAATAASTITAASATOSAAAAAAAAAATTITTITTA TAATSAAATAATA 217
   136 ANAÇANTTAAAAGITTITGALGITAAAATTIGIGAGGITGILAITGITGITGAAGITITGGCC 195
  196 AIGTGLOAANAATTAAMHTAFOTTFOAONAATGAHGGGGTGAAAAAGGGGTGATG 288
  456 AATAINGTITTAAGGAAAAGICAAAAAAAATTW.ACATAAAATAAICATGAITITTG 397
  Gaps
   996 TTAGCTOGGCGAATCATTATTATATGATAGCACACGAAATAAAAAFITATGTTTA 347
   376 TOATGTATCANTTACCTAGATCCTICAACATTTTCCCCACTTTATAATTCCTTAGATTA 435
   Rouneau, L., Billault, A., Quetier, F., Saurin, W., Bernot, A. and
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   316 TUTTORGGGAGAAAGGTIGTAGATTICATCAAGAATTITTGAGAGAGAGAGAGAGATGAT
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  the late of the country of the second day late of the country of t
   Mismatches 190; indeds
  froshwater pufferfish Tetraodon nigrovinidis
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  GSS: genome survey sequence.
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   Fetraodontidae; letraodon.
1 (bases 1 to 1029)
  0
   Tetraodom nigroviridis
  ALI74271
ALI74271.1 GT:7812328
  2 (bases 1 to 1029)
Powet-Crolling R , In
   (bases 1 to 1029)
   Matches 176, Conservative
   Weissembach, J.
   Best Local Similarity
   Unpublished
  Genoscope.
   sequence.
  496 AGAAGC 501
  Colors Harran
   NUMBER
   CRGANISM
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  A. P. F.S. S. LON
   VERSION
KEYWORDS
  REFERENCE
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  KEFFFFINGE
  AUTHOPS
   KEFERENCE
  AUTHORS
  AUTHORS
   DOUBLAIL
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  59 TIIAAI: INGAALTIAAGIANGIGPTIIAAAGIGGGIGIIAGGAAAAALGAGIAGAAGG 128
   7.12. AAATAFITTTATAAJITTTTFWIIWAWTWTWATATATTAWTTTTWITTJAAAAJAJWIII 771
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  Charaterization and report analysis of the compact genome of the
   50 ATATTITTAAACTCAGTAGTTTAATTTTAAATTTAAAGTGTTTTAAAGTGCTGTTTA 109
  110 GCAAAAATTCACTAGAAGGA FGTAGGACACAG FTAAAGT FTFCATGTAAAATTTG1GAGT 169
  1003 APTECT PETETTETTETAAAABAAAATAAAWWITTENWITTATAIFITTTTTTTTTTTWIFA 944
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Wetcormination of this BAC end sequence was carried out as part of a collaboration with the Berkeley Drosophila Genome Project (MaGP).

The MKRP is constructing a physical map of the Drosophila melanodaster genome using these BACs. For turther information picase see http://www.fruitily.org The BOGP Drosophila melanodaster BAC iibrary was prepared by Karutoyo Osoegawa and Aaron Mammoscor in Pieter de Jong's laboratory in the Department of Cancer Genetics at the Roswell Park Cancer Institute in Buffulo, MM. The Thisary is camed RPCI-ga and was constructed by partial and BY-th. digrettion of Drosophila DNA provided by the BOGP from the Somenic strain y2; on bw sp. the same strain used for the Hodr's and how to order individual BAC clones, the entire Center on the State of Drosophila BAC clones, the entire Center on the Court of the State of Drosophila DNA, Resource Center on the Court of the Court o
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   14.5 FAAAGT FFFGAFGTAAAATTTGTGAGTTCTATTTT FAACTGAATGTTTTGGCCATGTGFF 202
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  6.34 TERANTAATTTAATTAMTTATTAAATAAWTWAYTWWWYAATTAAAATAAWTWAAATTTWAAATTAWAAA 69.3
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  223 GGAGAAGGIIGIAGAATIIGALCAAGAAATGIITCACAAGAGTAGATAATGATTCATGTA 382
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   Genöschpe.
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   - Web : www.genoscope.cms.fr)
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   786 TITATALAH HASANANATAH TITANAN MANAN MAHAH MANAN WANNAN MANANA 727
  Bouneau, L., Billault, A., Quetier, F., Saurin, W., Bernot, A. and Weissenbach, J.
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  and how to order individual BAC clones, the entire library, or
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  24 TGTTACTTTCATATGAAGAAAAAAATATTTTAAACTCAGTAGTTTAATTTAAATTT B 🖅
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Pabar, ita. Melaisa, Atthrepoda, Bearpoda, Inse to, Storropeda,
Neoptera, Endopterygota, Diptera, Brachycera, Muscomorpha,
   10.2%; Score 51; DR 17; Longth 1401; 37.5%; Pred, Rc. 4,5%;
   186 others
  Mismatches 230: Indels
  454 FGAAGAGGGGGAAAAAAAAAACTTCTTTGACAAGATGGAGAGAA 499
  Arqanism "Drosophila melanoqaster"
   Ephydroidea; Drosophilidae; Drosophila.
1 (bases 1 to 1101)
   NA
   1101 bp
   /clone_lib."RPCI-98"
/note="end : T7"
  Location/Qualitiers
   234 q
  47;
  prosophila melanogaster.
  ALU69526.1 GI:4949669
   Conservative
   Genoscope.
Direct Submission
  .1101
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All Differs Announced to Announced by Sequences and Submitted (04-540-1999) Genoscope - Centre National de Sequences at 19 alone wept occurs. It - Web. Awardnoscope.coms. It - Web. Awardnoscope.coms. It - Determination of this Anched sequence was carried out as part at collaboration with the Berkeloy Drosophila become Filler of the Announce of Determination of this Anched Sequence was carried at physical map of the Drosophila and Filler of Second   CNSQNPP2 Theory are not been as a sin-19v9 Draws calls melanovaster appears strong experies TET2 and 3 RRC: RACK2P01 of RPC1-98 library from Prosophila melanovaster (1141) 14\chi_{\rm P}, genomic survey sequence.
   941 TAAAAWITTITEERAWAITMITAHMMMITWITTTITTWITITTAAAWITWAITHITTIAA 882
   208 ATTAACCITATCCTTCACCAAATGGGTGGGTTTGAAAAGGGGTGGGGGTGAAALALLIA 267
   881 TÍTWITATTGAGITAAGATAATĞMIAAAITTTAGGAAALLAGKKIWILLIKGIWALILA 822
   269 OACHEDLASSSAAAATTGBAATGTTATGTATGAATASATASATASALICALLILIUGA GOMOA 327
   388 TACCIAGATUCTCATGAAAFITTGAGACTTTALIAIAATFACTTACLIAGCAAAAAAAAA 447
   Drosophila melanogaster,
Drosophila melanogaster
Eukaryota, metazoa: Arthropoda, Hexapoda: Insecta: Pteryucta;
Neopreza, Phofotterygeta, Diptera: Brachycera: Muscomorpha:
Ephydroidea: Drosophilidae; trosephila.
  761 ATTOTTOWEAATTEETTAWAAWWATTTWIKILKAAWAATTEAWALIAWIEAAALETU
   Cordon ser "Drosophila melanoquater" |
//do.xrcf="laxer:7227" |
//do.xrcf="laxer:7227" |
//clone="RACE2901" |
//clone=11b "RRCI-98" |
//note "end : TET3" |
//note "end : TET3" |
   148 GINADATUMANANGGGGGAAAAAAA 474
   Location/Oualifiers
   ALU69440,1 GI:4949583
   (bases 1 to 1101)
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  Web : www.genoscope.cns.fr)
Determination of his PAC-end sequence was carried out as part of a collaboration with the Buropean Drosophila Genome Project (FDCP) - http://www.edgp.ehu.dc.ik : hts Prosophila melanogaster RAC library (Dros BAC) was made by Alain Billand at CEPH (Centre d'Etude du Polymorphisme Humain) with funding provided by a MRC project grant. The buA was prepared from embryos by Alain Bucheton and Genericye Payan. It has been constructed in the vector
   CNS015iA 1061 bp DNA linear GSS 26-JUL-1999
Drosophila melanogaster geneme sarre, Sequence T7 and Of BAC
BACN14L05 of ProsRAC library from Drosophila melanogaster (fruit
  Direct Submission
Submitted (27-HD) Proposorpo Controlat de Sequencage .
BP 191-91006 EVRY cedex - FRANCE (P-mail : segref@genoscope.cns.fr
   DD 1061 TIWITITIWWAWITAWAITWWADKITATKAKWITAATIKWITAAJITKWITAAAJIKKK 1902
   144 AAAGITTICAISTAAAATIIGIGAGIICIAIIIITAACIGAAICITITGGCCAICTGICA 203
  LOT ACARALITARGGITALGGITGAGGAAALGGATTGGAGTTGAAAAAGGGGGGAGAGGGAGAAAAA 263
  839 ATAAAAWAAAAAAAAATTTTATAATAKATTWTTTTTATAATTTTAAWAAAATWAAAWT 898
  254 HILACAGLICTAGGCAAAAITGTAATGTTATGTATATGAALAGATALAGALITITICAGG 323
   899 AITITITITITITITAAATWATTTKINAAIWAWAATAATTWWTTATAAAWATATTAA 958
   524 CACAAGGCTTGTAGATTTCATCAAGAAATCITICACAAGAGIAGATAATCATTCATGTAT 383
   Drosophila melanogaster
Eukaryota: McLaraa Arthropoda: Herapoda, Ladectu; Fluijyeta,
Reoptera, Eudopterygotu; Diptora, Brachycera, Muscomorpha;
Ephydroidea, Drosophilidee; Prosophila.
  2; Gaps
  30 TTTCATATGAAGTGAAGAAAATATTTTTAAAGTCAGTAGTTTAAATTTAAAGTAT 89
   DB 17; Length 1061;
  h'; Mismatches 222; Indels
   277 t 215 others
   /organism="Drosophila melanodaster"

/Ab_zref="-rayer=222"

/clone="BACN141.65"

/clone_lib="broshAc"

/plasmid="BeloBAC11"

/plasmid="BeloBAC11"
  10 0%; Score 50.2; DB 34.9%; Pred; No. 0.79;
   1061 bp
  genomic survey sequence.
  Location/gualitiers
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   Drosophila melanogaster
  fly), genomic survey se
ALIUS604
ALIUS604.i GILSUI7bix
  1079 AAAATWAAAAAAAA 1094
  444 CACAGTAAGATGAAGA 459
  138 €
  Matches 156: Conservative
  1061
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  Genoscope
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First strand cDNA synthesis was completed using a 50 hase

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   Alst Most or a constant of the Misson of the parasitemia, blood was collected from BALD (Byzano, 1115 of all 1117), parasitemia, blood was collected from BALD, Byzano, 1115 of all 1117 parasites, and lenkovytos powered by passage correct
   microcrystalline cellibase collumns. Fotal RNA was isolated using the quantinism isolahocyanate met wd. and mRNA isolated using oligo(df) cellibase chromatography.
   For clone into, please exister the Balaria Repearsh and Resence Reasons Resource Center, ATO? Intep: (State this)
   189 ITTGGCCAESTSTAA AAATTAA SITALO TISAL WAATGGGS SSSTISAAAAS. 218
   7.28 AWAAWTWELWAEWAWTAATTTAAWLWWEDAAAAAAAAAAATTTAFTTTAFFFWFTAT 71.9
  718 TWAAAWTTTTWAALTWWYTTTAATAWTTAAAWTWTTAAAWAWWTAAWTTAAATAA 659
  69 HIIAATTIANAATITAANTATUNGITTIAAAGISSOOGITASSAAAAATICANTAGAAGG 128
  12º AFRIASSASA MOTTAMAZITI FATOTAMAH ITOL MALI SISITITAM KUMAKSA 148
   Eukaryota: Alveolafa; Apicomplexa; Haemosperida; Plasmodium.
1 (bases 1 to 548)
Carlton, J.M., Paly, L.K., Lone, P.A., Refeman, L.W., Vaidya, A.B.,
   0; caps
   9 AATTALTALCATGATGTIGTIAGTIFTAFIAAGTSAAGAAAAATALFILAAAMTAGTAG 58
10.0%; Score 50.2; DB 17; Length 1101; 38.3%; Pred, No. 0.75; Ed. 10dels 0;
  Parasite denomics Group.
The Institute for Gonomic Research.
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Tel: All SA0-9419.
  /orquisme"Flasmodium poelli goelli"
/strain "1788,"
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/Ab.aro: "tava;?22°°"
  /clone_lib="PyBS"
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  Fraser, C.M. and Carner, D.J. Blasmodium you'll ESI project at 1136 Unpublished (2001)
   Localing/Qualitiers
   Plasmodium yoelii yoelii.
Plasmodium yoelii yoelii
   carltonatign.org
   BM161710.1 GI:17406991
   Contact: Jane Carlton
  Conservative
   301-838-0208
  7.
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  Seq primer: ADF.
   mKNA sequence.
  309 ATTCATTTT 319
  478 ITAWIIAIYII 468
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5-mentally dCTP. After second strond synthesis, uneven termini where treated with the DN ynchesis, uneven termini were treated with the DNA polymerase and Bookl adaptors ligated to the blunt ends. The sample was cleared with Xhol and separated on a Sephacryl S 500 column. Size tractionated cDNA was precipitated and ligated to HybrizAP anns directionally using Ecokl Xhol cleared anns. After pockaging, the phagemid vector (pAD 5814) was excised from the HybrizAP vector and plasmid bNA isolated."
   CREMENT GSS 24 MAY 2008
1013 redom strong survey sequence D2 and of clane
125P20 of library G from letracdom nigrovitidis, economic sorres
  Bukurgita, Motazoa, Chordata, Graniata, Vertebrata, Enteleosh mi:
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   Human gene number estimate provided by accome wide analysis using tetraodom nigroviridis BMA sequence
  Rocat Croffins, H., Jaillon, C., Basilva, P., Flyames, D., Tisho, C., Romosa, L., Ellault, A., Quetier, F., Saurin, W., Bernol, A. and Weissenbach, J.
  Dasilva, E., Bouneau, L., Fisher ...
   188 FTFFGGCCATGTCTCAAAATFAAGGTTATCCTTCACCAAATGGGTGGGGTTGAAAAAG 247
   280 CALESTAAAGGAGTICACGIAATAAAAACAACAGCITATIATIATICCCTITITICATIGGG 3 G
  128 GATGTAGGACACCTTAAAGPPTTGATGTAAAATPPGIGAGTTCTAFITFFAAGTGAA+C 187
  160 TATLITETTTAAAAATAAAATAACATGGGGTAAAAAAAAAGTAFTTATGTASTITLI 219
   248 GCGTGA FGCATAAATATTTACAGTTGTAGGCAAAATTGTAATGTTATGTATATGAAAATTATA
  * GAALANIALAPATETATTATATAAGUAAGAAATATTTTAATTAATA 67
  46 UTH FAAF HACAAT TTAACTATGTGTTTTTAAAGTWOTGTTAWWAAAATHOACTAWAAH 127
   220 FIALATAAAATTAGAATTAAAATAATAATATTAATTAAATATGIGAAAATTGIATA 279
  o; daps
  45 GAATHATTGTTTTGTTTTTACTATTAATTGTAATTAAATTTAATTTAITH 99
  Wincker, P., Brottier, P., Quetier, F
   Score 49.8; DB 14; Length 548;
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C. Mismatches 202; Indels
  208 t
   1184 bp
   Reserved, A., Fizames, C., Wineker,
Santin, W. and Weissenbach, J.
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   OSS; genome survey sequence.
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   Tetraodontidae, Tetraodon.
1 (Lases 1 to 1184)
   Tetraodon niquoviridis
  0850.1 01.8177869
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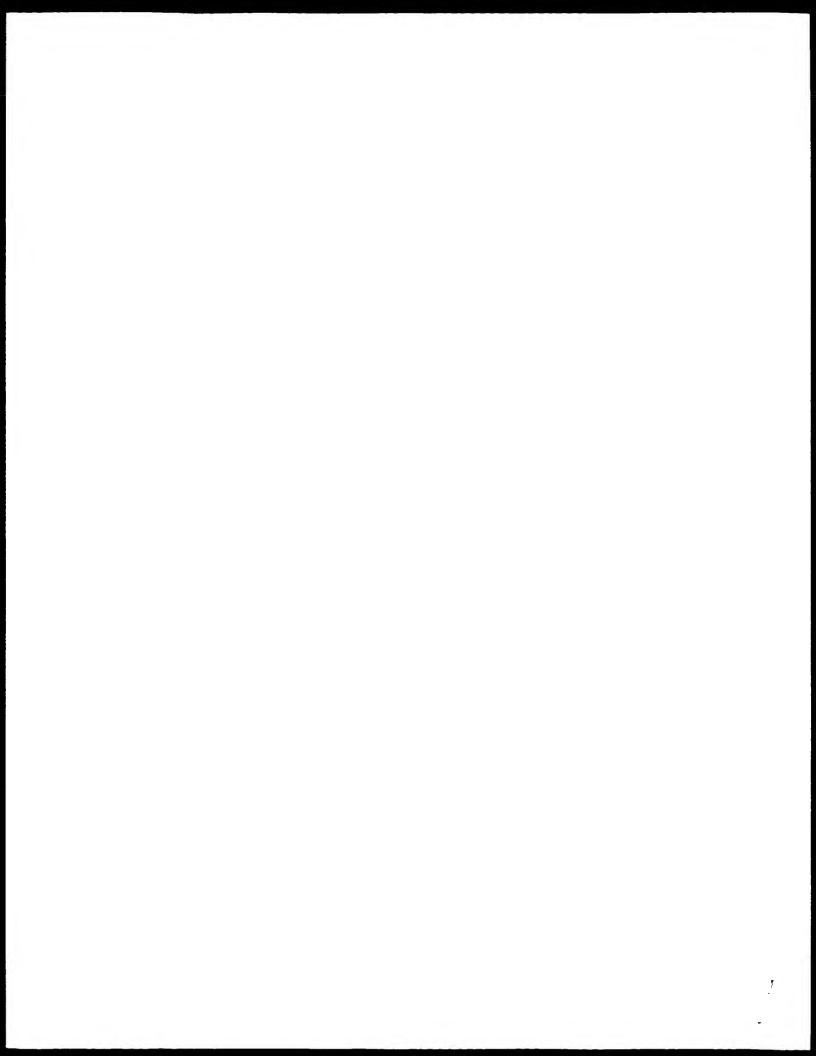
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Senoscope.

Direct Submission

Submitted (12-APR-2009)

This weigner is a violar read and was percrated as part of a large scale clone-end sequencing project of the feltasdon nigroviridis genome. For more intermation, please take a look at
   8M289648
E81576.180 AvsG Amblycama variegatum (DBA close AVAG)3 5° end, mKHA
  Nene, V., Lee, Y., Skilten, R., Quarkenbush, J., Gardner, M. and Bishop
  A partial gene indox of MSIg from the salleary glands of Amblyonma
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Another Tourise acqueree 1b : C0801250C01b1 and : 97"
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Charaterization and repeat analysis of the compact genome of the treshwater putterfish letraodon nigroviridis
  51 TATITITAAACTCAGTAGTTFAATTTTACAATTTAAGTAFGTGTTTTAAAGTGTTTG 110
  111 CAAAAATICACTAGAAGGATGTAGGACACATTAAAATTTTCATGTAAAAFFTGTGAGFT 170
  23] GGGTGGGTTTGAAAAAAGGGGGGATGATGATATTTTGAAAATTTGTGAAAGG
  291 TIATGTATATGAATACATATTTTTTGAGGAGAGAGGCTTGTAGATTTCAAGAA 350
   Ambijosana sariegatoss.
Ambiyosna variegatos
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Parasitilormes; Ixodidas Ixodidae; Ambiyosmma.
1 (bases 1 to 660)
  0; Caps
  9.98; Score 49.8; ids 17; Length 1184; 38.28; Fred. No. 0.95; Live 41; Mismatches 158; Indels 0;
   Zordanism-"Totraoden nigrestridis"
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   120 TO CONTROLL OF TANAMAN AND ANAMANAMAN AND ANAMANAMAN AND TO COME AND
   65 GTANTITAALITIAGAATITAAGIATITIAAANTOOTIGITAGGAAAAATOATIAG 124
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IDENTITY\_NUC Gapop 10.0 , Gapext 1.0 Scoring table:

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

| Result   |            | Query           |                 |            |                                                             |                      |
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| Š.       | Soure      | Match           | Match Length DB | DBC :      | ID.                                                         | Description          |
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| C)       | (1)<br>(1) | ၁. <sub>ဗ</sub> | 843             | ()<br>e t  | US 09 861 151A-21                                           | Stylather 21, Appl   |
| æ,       | 18.4       | 7.7             | 409             | 0.1        | US-09-867-701-131                                           | Sequence 131, App    |
| <b>4</b> | 47.8       | ν.<br>υ.        | 1512            | ٠,         | 18. 615 815 831c                                            | Statemen 316, Ap     |
| 0        | 37.8       | 7.5             | 3141            | ð          | US-10-037-598-33                                            | Sequence 33, Appl    |
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| 15       | 3.65       | 4.5             | 3785            | 10         | US-09-764-855 180                                           | _                    |
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| Cabban FILAL Add. 201. (2-06) Follows of old Alba September 5 SOPTWARE FastSEQ for Windows Version 4.0 SEQ ID No. 3 LENGTH: \$2.573                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| Follows of old of Aris: 5<br>SOPTWARE FastISE for Windows Version 4.0<br>SEO ID No. 3<br>LENGTH: \$2.523                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Te. 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   99 MTGPCTH IAPYAAAAILEMITMIAAGGAFGFAGGAGAGCH FAAAGTH HCAHGTAA 158
   279 AAAATTGTAAIGITATGTATADAATACATATFGATTI [TTCAGGGGGGGGTTGTAGA 338
   8.0%; Score 40.2; IR 10; Gangth 842;
45.4%; Pred. No. 2.5;
Pro. P: Mismatcher 177; Galeta O; Gaps
   39 AAGTOAAGAAAATATTITTAAAGTOAGTAGTTIAATTITAGAGTATGTGTTTAA 98
  THER INFORMATION. DESCRIPTION of Artificial SequencesClone pAD7QU
   APPLICANT: Commonwealth Scientific & Industrial Research Graal LITLE OF INVENTION: Methods of identifying Antique Gone Sequences FILE REPREBRIE: PP.403.4/G1
FILE REPREBRIE: PP.403.4/G1
CHREIT APPLICATION TOWNERS. 03/09/861,451A
  sequence 21. Application US/09861451A
Patent No. US20020068289A1
  Db 15480 11GA7AAAATGGAGAAAY 15500
   PRICK APPLICATION NUMBER: P97273
PRICK FILLING 6577
  481 TEGATABAGATGGAGAGAGGT SEEL
   RGANISM: Artificial Sequence
  PRIOR FILING DATE: 1998-11-26
NUMBER OF SED ID NOS: 84
SHFWARE: Patentin Ver. 2.0
   339 FITCATCAAGAAATGII 355
  401 FIGAAGAAACTAATTIF 417
   Guery Match
Best Local Similarity 45.4%
Matches 144; Conservation
  SENERAL INFORMATION:
   11S-09-851-451A-21
   US-09-861-451A-21
  TYPE: DNA
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Sequence 131, Application 85/89867781

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APPLICANT: Arcps, Joel
APPLICANT: Wang, Xun
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FILE REFERENCE: SCRIPT: 300-3
  58 AAAAATGIACTGAAATTTTTACAAATCAGIATTAAAATAIIITGGIAGITTGITTCAAIA 117
  3.35 PRATURAMENT FORCEACT TITATIAN TOUTTAGET INCOCEARAMINACIAAGE (SAAN) 458
  279 AAAATTGIAATGTTATGTAFATGAATAGATATTGATFTTTTGAGGGGAAGGT GITAGA 338
   339 TIFCAFCAAJAAATCTTTCACAAGAGFAGATAATCATTCA IGTAFCACFTACTTACTAGATOT 339
   44. ATATOAMOTGAAGAAAALATTITTAAACOGAGIAGITTAATTIAOAATITAAGIAMOOT 🦠 6
  62; Indets of daps
  7.7%; Score 38.4; DB 10; Length 309; 52.5%; Pred. No. 4.9;
  nery Match 7.5%; Score 37.8: DH 9; Length 1512:
est Local Similarity 54.7%; Pred. No. 9.3;
   APPLICAME: BALFORKOT, Susan L.
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LIES OF ENVENTION: AND PLACEDISTS OF TVARIAN CANCER
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  SOFTWARE: FastSEQ for Windows Version 4.0
   CRICE ADDLICALED NUMBER: 05 63/264,647
PRIOR FILING DATE: 2001-01-16
PRIOR FILING DATE: 2001-01-16
PRIOR FILING DATE: 2001-06-22
NUMBER OF SEQ 10 NOS: 5379
SEQ 10 NO 3316
  FELTE ATTITUTION HUMBLE, US 52, 127, 866.
PRIOR FILING DATE: 2000-08-24
   . Scynence 3316. Application 05/09938842A
; Patent No. 0820020160378A1
   459 ANDENCEANAAAAAAAAAAAATITCITT 482
  3 DATE: 2001-05-29
ID MOM. 19912
   2001-08-24
   ORGANISM: Arabidopsis thallana
  75; Conservative
  Conservative
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   FILE REFERENCE: 210121.497
   APPLICANI: Adiate, Paul A. APPLICANI: Jones, Robert
Parcht No. 88386,003 (2007)
GENERAL INFORMATION:
  APPLICANT: Harper, Jett
  ORGANISM: Homo sapien
  CURRENT FILLING DATE:
  Local Similarity
  CURPENT FILING DATE:
  CONDRAL INFLAMATIONS
   11S-09-948-842A-4416/0
  US-09-938-842A 3316
  US-09-867-701-141
  Matches 107;
   ID NO [3]
   TYPE: DNA
   TYPE: DNA
  Query Match
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  I.ENCITH:
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APPLICANT: Monsanto Concluded to the Management of APPLICANT: Monsanto Concluded to the Management of APPLICANT: Concluded, Vergel APPLICANT: Concluded, Vavier ITILE OF INVENTION: Sorpean plants with Enhanced Yields of ITILE OF INVENTION: Sorpean plants with Enhanced Yields CURRENT AFFERENCE: 38-21 (22175)8 CURRENT AFFERENCE: 38-21 (22175)8 CURRENT AFFERENCE: 2002-01-04 PRIOR PILIANC DATE: 2002-01-04 PRIOR APPLICATION UNMERS: 06/260,040 PRIOR APPLICATION UNMERS: 2003-01-05 SURVEY FILIN: INVE: 2003-01-05 SURVEY SEO ID NOS: 37 SEO ID NOS: 37 SEO ID NOS: 37 SEO ID NOS: 37 SEO ID NOS: 30 
   94 TITAAAGTGCCIGLIAGCAAAAATTCACIAGAAGGATGTAGGACACACTTAAAGTTTTCA 153
  163 TGTGAGTTCTATTTTTAACTGAATCTTTTGGCCATGTGTGAGAAATTAACGTTATCCTT 222
   223 CACCAAAIGGGIGGGCIIGAAAAAGGCGIGAIGCAIAAATATTIACAGIIGIAGGCAAAA 382
  283 TISTAATGTTAIGTATATGAATACATAFTUALITITITUAGGGAGAAGGGTTGTAGATTTC 342
  624 TTATATAGTTGGCT1TATTATAACTAATTACTTTTAGCTTTTTGTAAGTTCACTGTTTTG 565
  684 CACCAAAATGITIGITITAIGATTAATITCATGAAATAAATATATTIGATTTGTGGAAAA 525
   U; Gaps
  Query Match 7.5%; Score 37.8; DB 9; Length 3141; Best Local Similarity 40.36; Fred No. 11; Matches 99; Conservative 0, Mismatches 102; Indels 0;
  APPLICANI: WALANABE, HILDMI
APPLICANI: WALANABE, HILDMI
APPLICANI: WALANABE, HILDMI
APPLICANI: WALANABE, HILDMI
APPLICANI: SARAKI: YSSHIYUKI
ITILE OF INVENTION: GENOME DNA OF BACTERIAL SYMBIONT OF APHIDS
CURRENT APPLICATION NUMBER: US/09/790.988
CURRENT APPLICATION NUMBER: US/09/790.988
PRIOR APPLICATION NUMBER: US/09/09/10/160
PRIOR PLILING DATE: 2000-04-07
SOFTHAME: PALUATION NUMBER: US/09/09-10/160
   5-10-047-598-32/6.
Sequence 33. Application US/10047598
Patent No. US-2000157143A1
GENERAL INFORMATION:
  Sequence 1, Application US/09790988
Patent No. US26020127687A1
GENERAL INFORMATION:
APPLICANT: SHIGENOBU, SHUJI
   343 ATCAAGAAATCTTTCACAAGA 363
  564 TIATICITITIAGGAGA 544
  1221 TAACAGTGCTCTGAGTT 1305
   154 TGTAAATTTGTGAGFF 170
  ) ORGANISM: Glycine max
US-10-037-598-33
   SEQ ID NO 1
LENGIH: 640681
  3141
  RESULT 6
US-09-790-988-1
  DNA
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DE 134594 TITTAAFGAAAAAAAAGAATTTTTAATTACATGTGACTIIGAASAATCASAATISTA 144653
   Ob 134654 TIAIAGAGAAAJOAIIAAGIAIGAIICTCIAAAJAAGAAATTSATTIIAAGAAIIIIAI 134713
  UB 134714 CITITIGCTITETTAAAAACITEGETTIGICCTGATGACTGCTAGTTITEAFALAA 1 4223
  2789 GAFAIGINGCETTTTAAAAGAACTTATTTACAACCTTTCAACAICCTGIALITICIA 2848
   81 TTTAAGTATGTGTTTTAAAGTGCCTCTTAGCAAAAATTCACTAGAAGGATGTAGGAAGA 140
   129 AIGTAGGACACHTAAAGTTTTCAIGTAAAATTLGIGAGLICHAHTTTAACHGAALCH 188
   189 TILGGCCATGTGECAACAAATTAACGTTATCCTFCACGAAATGGGTGGGTGGAAAAAAG 248
  det daps
   21 CACTGTTACTTTCATAIGAAGIGAAGAAAATATTTTAAACTCAGIAGIIIAALIIACAA BU
   odeo ::
   69 TTLAATIIACAAITTAAGTATGTGTTTTAAAGTGCCIGLIACGAAAAAITGAJIACAACA
   7.5%, Score 37.8; DB lu: Length 640681;
50.9%; Pred. No. 31;
inc. 2, Mismatches 87; Indels 0;
   7.5%; Score 37.4; DB 12; Length 180557;
46.4%; Pred. No. 30;
Uve 0; Mismatches 141; Indels 0; o
  APPLICANT: Bishop, Colin E. APPLICANI: Abouthik, Alexander I. APPLICANI: Anouthik, Alexander I. APPLICANI: Anouthik, Alexander I. APPLICANI: Shu, Olichao Tritte Or INVENTION: CAN I AND 118 POSE IN MARIALIAM SHERFILLSTY CURRENT APPLICANIS BOUNDERS AND SHER SOUTH FOR A SHEET SOUTH SHEET APPLICATION SHEET SOUTH SHEET APPLICATION SHEET SOUTH SHEET APPLICATION SHEET AND SHEET APPLICATION SHEET APPLICATION SHEET APPLICATION SHEET APPLICATION SHEET APPLICATION SHEET APPLICATION OF SHEET APPLICATION OF SHEET APPLICATION OF SHEET APPLICATION AND SHEET APPLICATION OF SHEET APPLIC
  I HIII IIII I HIII HII
  : Sequence 6. Aprilication HSZ10003806
: Patent No. US20020119929A1
: GENERAL INFERMATION:
   204 ATTOATT TITINAGGGAGGGG 341
  5-10-003-806-9
Sequence 9, Application US/10003806
Patent NG. URLG-20115929A1
   Quory Match
Best Local Similarity 50.8
Matches Go: Cascerptice
  il Similarity 46.4
122; Conservative
  Buchnera sp
   GENERAL INFORMATION:
  H-IMBED
   180557
; TYPE: DNA
; ORGANISM: B:
US-09-790-988-1
   RESULT 7
US-10-003-806-6
   15-10-003-806-6
   SEC ID NO 6
  TYPE: DNA
  Query Match
  Matches
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DD-144594 FITTAATSAAAA SAATSTETTIAALIS KEIS ACTIOAAAA SAATTOOA (3160)
   189 TTEGCCATCTGTCAACAATTAACGTTATCGTTCACCAAATGCGTGGCTTGAAAAAGG 248
  129 ATGTAGGACACATTAAAGFITTCAFGTAAAATTEGTGAGTTTTAATTTTAACTGAATCT 188
  249 CCFGATGCATAAATATTTACAGFFGTAGGCAAAATTGTAATGFFATGTATGAATACAT 308
   69 TTTAAFFTAGAATFTAAGFTTTAGGFTTTAAAGTGCFTGTTAGGAAAATFCACTAGAAGG 128
  O; Gaps
  undels 1; Caps
  guery Match 7.4%; Score \mathcal{O}.2; DB 10; Length 640681; Best Local Similarity 42.1%; Pred. No. 42; Matches 146; Conservative 0; Mismatches 164; Indels 1; C
   DB 12: Lemath 180557;
APPELCANT: Bishop, boths E.
APPELCANT: Adoutnik, Alexander I.
APPELCANT: Adoutnik, Alexander I.
APPELCANT: Adoutnik, Alexander I.
APPELCANT: Adoutnik, Alexander I.
ELLE PEPEPERES: PS296.091/201/201
ELLE PEPEPERES: PS296.091/201/201
ELLE PEPEPERES: PS296.091/201/201
PRECR APPELCATION NUMBER: 69/245,872
PRECR ALIANG TAME: 2001 II 02
PRECR ALIANG TAME: 2001 II 03
PRECR ALIANG TAME: 2001 II 03
RECR ALIANG TAME: 2001 II 03
RECR ALIANG TAME: 2001 II 03
RECR ALIANG TAME: 2001 II 03
SOFTWARE: PERCENTIN VERSION: 3.1
  APPLICANT: HAITORI, MASAHIRA
APPLICANT: SAKAKI, YOSHIYOKI
IITLE OF HYDRIFLAN, 2018 AGL DAN SI BAGIDKIAL DIMBE ME A MEHILA
FILE REFERENCE: 081456/0159
  7.5%; Score 37.4; DB L2; Longth D
46.4%; Pred. No. 30;
ive 0; Mismatches 141; Indels
   836 (062,45,73
   PRIOP APPLICATION NUMBER: IDENCE 1871GP
PRIOR FILLING DATE: 2000 04-07
NUMBER OF SEG 15 N.S. 7
  DF 134834 GITTATTTTTTTALIAGOS 134856
  409 AFTCATTTTTTAGGGAGAGGC 331
   Sequence 1, Application US/09790988
Fatent No. US20020127687Al
GENERAL INFORMATION:
   CUREFUL APPLICATION KURBER, 317/39
CURRENT FILING DATE: 2061-02 23
   46.4%;
   APPLICANT: SHIGENOBU, SHUJI
APPLICANT: WATANABE, HIDEMI
  Matches 122; Conservative
   SOFTWARE: Patentin Ver. 2.1
   RGANISM: Buchneta sp.
   Best Local Similarity
   ORGANISM: Human
  180557
   LENGTH: 640681
  12-888-042-60-50
  US-10-003-806-9
  08-08-286-1
  TYPE: DNA
  TYPE: DNA
  gnery Match
   SEC IN NO I
  RESULT 9
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TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,
TITLE OF INVENTION: NUCLEIC ACID MOLECULES INCODING HUMAN TRANSPORTER PROTEINS,
TITLE OF INVENTION, AND USES THEREOF
  B 48313 ATTITANTANTITATANTITATANAATAANGAAAATTITTINNATTIGAAAATATA 48254
  48193 TATAATTTFAGSAGAAATTATGAATAAAGATCACTACAATCGAAATAAGGATAAAA1103 46134
   11587 AAANA FITAAAARATAAAATTACTAACATAAAATAATTAN FICONAATTAAAAAAAA 18528
   192 GOCCATGLGTCAACAAATTAACCTTTCACCA-AATGGGTGGGCTTGAAAAAAAGGG 250
   232 GGTGGGCTTGAAAAAGGCGTGGATGCATAAATATTTACAGTTGTAGCCAAAATTGTAAFGT 291
72 AATTI MÜÄNITTÄNYTATO BYTTTÄAAGIGYCTISTI MOJAAAATTI MOLINGAAGGATG | 31
  112 AAAAA1F JASTAAMASAAFATAAAAQAAMATTAAAAATTTGALGTAAAATTTGAGTTC 121
   0; Mismatches 107; Indels 0; Gaps
   ory Match 7.3%; Score 36.8; DM 10; Length 568004; est Loral Similarity 48.6%; Pred. No. 47;
   NUMBER OF SEG 1D NOS: 5
SOFTWARE: FastSEG for Windows Version 4.0
   CHREEN FILING DATE: 2001-09-12
   292 TATGIATALGAATACATALICATITITI 819
   CURREMI FILLING DATE: 2001-09-12
PRIOR APPLICATION NUMBER: 60/231,572
  // Sequence 1, Application US/0994267A
/ Patent No. Coperation581
/ COMMISSAL (No SOUNT)
   everation of Application US, 09949654
Palent No. US20021021644A1
CENERAL INFORMATION:
APPLICANT: YAN, Chunhua et al.
   HAMILYENT: mise_leature
loanation. (1)...(360034)
refiller interestination of JC of G
US-09-949 654 3
   2000-09-11
   Matches 101; Comseivative
   FILE REFERENCE: CLOOO817
  Db 48073 GIGILLITAC 48064
   311 TCATTTTTC 320
   PRIOR FILING DATE:
  ORGANISM: Human
  368004
  115-61-93> 267A-1/C
   US-09-949-654-370
  TYPE: DNA
  SEO ID Nº 3
   Querry Match
   FEATURE
  LENGTHE
  RESULT TO
   RESULT 11
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DE 352158 CATAATITETACTACATITEGAGAAGATGTT1AAATTATITAAGHIGAATAAACHFATATI 352099
   316 ITTTCAGGGAGAGGCTTGTAGATTTCATGAGAAAICTTCAGAAAAGTTGAGATAAYGCAT 375
  0; Caps
  7.4%; Score 96.6; DB 10; Longth 465237; 50.7%; Pred. R., 53; tive 0; Mismatches 84; indels 0; C
  Db 352229 CATOTAN PACIFIACION SMACATONA MATTEMATA DANAMAN SSE438
  DB 10; Length 248;
  476 DAIGTALGACITACCIAGA GOTGAIGAANTITIGCCACTITALAATT 426
   APPLICANT: Hauge, Brian M. Strand, Strand, Strand, Sold Strand, 
APPLICANT: Kalush, Francis et al.
TILLE OF INVENTION: Estroben receptor alpha variants and
TILLE OF INVENTION: methods of detection thereof
FILE REFERENCE: GLOOGESBCIA
CURREDALICH HUMBELL, US. TATALA
  / Match 7,2%; Score 96.2; DB 10;
Local Similarity 51.6%; Pred. No. 14;
nos 83; Consorvative 0; Mismatches 78;
  CUREDIA MATERIAL LANGUAGE SELLA CORRECT AND CORRECT AND LANGUAGE SELLA CORR
   Sequence 1330, Application US/U9969373 Parmit R 192700[03] 4367233
  Local Similarity 50.74
nes 87, Conservative
  APPLICANT: Efferts, Kager J
APPLICANT: Hauge, Brian M.
  Glycine max
  GENERAL INFORMATION:
  : ORGANISM: human
SIS-09-933-267A-1
  465237
  RESULT 12
He county 273 1330
  DNA
PNA
   Query Match
  ONA
  RGANISM
  H.L.X
  Matches
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153 ATGTAAAATIIGIGAGTICTATIITTAACIGAATCTITTGGGGALSIGIGAAGAAATIAA 212

indels 0; Gaps

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  260 AATAD TAYAGID GLASHAAAATTGLAATGITATGIALAEGAAAATACALAFITT 319
   68 ALATATE DEPOTABLISMANTE DI AALAMATATE DE ALTER DE LEED OFFICE AL LE
  Such Flatch.

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BE 2017 9 8 84 AA - COLT / PETER IN TO YOU SHE ALA COLT / ALE IT SAND SHE ALA COLT / ALE IT SAND SHE ALA COLT /   S you confident Alter September 135/2009 SPR42A Sequence 42.5 April correct 135/2009 SPR42A Editorit 186 (1982-2005) Spr24A Citation 186 (1982-2005)
   RGANISM: Arabidopsis thaliana
  FILE REFERENCE: SCRIPT300-3
   APPLICANT: Harper, Josef APPLICANT: Wahe, Nat. APPLICANT: Wahe, Nat. APPLICANT: Nat. Ton.
   IS-09-938-842A-4233
  457 6 452
   500 5 500
  IYPE: DNA
   *ESHLI I *
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258 TAAATATTTAJAST PELASETSARATTSTRAERIERAERIAJAAATATATATATATATTTT - 417
  507 FAAAAATTAGA FOGAAA LOCAAAAATGCTTAAA FFATAGALTIA I GA FAAATTTAAATTE 566
  47 AAAATATTTTAAAACTCAGTAGTTTAATTTACAATTTAAGTATGTGTTTTAAAGTGGCTG 106
  107 TIAGCAAAAALICACIAGAAGGATSTAGGAAAAAATIIAAAGIITTICAIGIAAAAIIIGIG 16A
   0: Caps
  o: Caps
   167 AGTTCTATTTTTAACTGAATCTTTTGQQCATGTGTGAACAAATTAACGTTA1CCTTG 223
   Ouery Match 7.2%, Score 46.2; (B 10, Lenath 9785; Best Local Similarity 51.6%; Pred. No. 25; Malanaches 83; Conservative 0; Mismatches 78; Indols 0;
   Courty Match 7.28; Score (6.2; DH 9; Langth 2000; Best Local Similarity 50.48; Pred. No. 22;
  CURRENT APPLICATE A HIMBER, 03/09/764,855
COBRENT FILIN: DATE: 2001 01-17
Prior application data removed - consult PALM or file wrapper
NOMBER OF SED ID NOS: 434
SOFTWARE: Patentin Ver. 2.0
   (f) Mismatches 88: Indels
   APPLICANI: Kosen et al.
TILLE OF INVINCTON: Buchere Avids, Proteins, and Antibodies
FILE REFERENCE: PAIL0
   378 ATGTATCACTTACCTAGATCCATGAAATTTTGCCACTTT 418
  TITLE OF INVENTION: SAME, AND METHODS OF USE
FILE REPERBINE: SCHEDBOOF S
CURRENT APPLICATION NORBEN: US/09/2006, 842A
CURRENT FILING DATE: 2001 08:24
   CURRENT FILING DATE: 2001-08-24
PRIOR APPLICATION NUMBER: US 60/227,866
PRIOR FILING DATE: 2000-08-24
PRIOR APPLICATION NUMBER: US 66/264,947
  PRIOR FILING DATE: 2001-01-16
PRIOR APPLICATION NUMBER: US 60/300,111
PRIOR FILING DATE: 2001-06, 22
NUMBER OF SEQ. ID NOS: 5379
SEQ. ID. NO 5027
   Sequence 180, Application US/09754855
Patent No. US20020119919Al
GENLKAL (NFORMALION:
  p okganism: Arabidopsis thaliana
US-09-948-842A 5027
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   J ORGANISM: Homo sapiens
US-09-764-855-180
  US-09-764 855-180
  LENGTH: 3785
   TYPE: DNA
  IYPE: DNA
  LENGTHE
   Matches
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Search completed: Junuary 4, 2003, 15:32:17 Job time: 982,486 sees

GenCore version 5.1.3 Copyright (c) 1993 - 2003 Compugen Ltd.

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|                                                       | January 4, 2003, 10 9738] Statch Line 16972 b Seconds (Withbout alignments) 10282.476 Million cell updates/sec |
| Title:<br>Perfect score:                              | US-09-776 705 3_50481_L5090_15500<br>501                                                                       |
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| Scoring table:                                        | ibenility_NUC<br>Gapop 10.0 , Gapext 1.0                                                                       |
| Searched.                                             | 31852339 scds, 1125999159 residues                                                                             |
| Total number of                                       | Total number of hits satisfying chosen parameters: 4376478                                                     |
| Minimum DB seq length: 0<br>Maximum DB seq length: 20 | Minimum DB seq Length: 0<br>Mayimum DB seq itaati. 2000000000                                                  |
| Post-processing                                       | Post-processing: Minimum Match 0%<br>Maximum Match 100%<br>Listing first 45 summaries                          |

Pred. No is the number of results predicted by chance to have a servic greater than or equal to the store of the result being printed, and is defived by analysis of the total score distribution.

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|--------------|-----------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------|--------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| esalt<br>No. | Score                                         | Query<br>Match                                                                  | Query<br>Match Length DB ID                        | DB     | ID                                                                                     | Description                                                                                                        |
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| భా           | 45.6<br>45.6                                  | 100                                                                             | 11036                                              | 100    | ABL32108<br>AAS45411<br>ABK28264                                                       | Human immune syste<br>Chemically pretrea<br>DNA transcription                                                      |

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| Aut 2250.7 | AAH54452               | AHNRODES           | AB1 82726                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | AA>40566          | ABL70458 | AA561422                                      | ABL32536            | ABL34026            | ABI. 14608        | 7,7346.41.8        | AHN80163           | ABL33219              | ABQ67083                                       | AAS46787         | ABL.32867                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | AAS63325           | AF: 52894          | ABN79985             | AAK74027                     | ABL7054;         | ABL 34514          | Anthono             | AB066944             | ABI.33761        | AHL70199                                       | AAS61157            | ABK31244        | ABL34235     | APRICE           | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Arthernia            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Apl togat | ABL54340               | AP. 2.2. |  |
| 7.7        | F (1)                  | 24                 | , e                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | N                 | 24       | ٠ <del>٠</del>                                | ă                   | 24                  | .7                | C                  | 24                 | 2.4                   | 24                                             | (1<br>(대         | 24<br>24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 24                 | ā                  | 24                   | 0                            | 24               | 24                 |                     | 24                   | 24               | 7.4                                            | 24                  | 24              | 5.4          | =                | ;;                                    | 1                    | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5.0       | 7.7                    | 5        |  |
| 5165       | 2403                   | 16602              | 16502                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | **                | 15161    | 18161                                         | 7544                | 17594               | 18785             | 8995               | 6668               | 6,668                 | 18357                                          | 61020            | 6319                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| . 4        | C.                     | £.0                | 5.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ; °               | æ<br>æ   | ac<br>ac                                      | x<br>x              | 8.39                | r:<br>00          | 7                  | 8.7                | Ξ.                    | 8.7                                            | ೆ                | G.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 18. 6              |                    | 9.8                  | ٠<br>ع!                      | 8.5              | ۍ<br>«             | į                   | œ                    | ил<br>œ          | ω,                                             | ν.<br>π             | i∩<br>œ         | 0.5          | 5                | ÷                                     | ar<br>ar             | o.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | σ         | a<br>a                 | 3        |  |
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The invention felates to nucleur actus containing a sequence of at least 18 nucleotides of chemically treated DNA of genes associated with DNA actories and their complements. The twentish also relates to incleic actus contributed by pretreated DNA of genes associated with DNA sequir actoried from FMS21. PMS21.1. PMS21.2 PMS21.2 PMS21.3 PMS21.3 PMS21.3 PMS21.3 PMS21.3 PMS21.4 PMS21.3 PMS21.4 PMS2
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bases of a chemically prefreated gene associated with gene regulation, selected form 4 sense (ABLA-20) REGA-939) and/or complementary september associated with DNA replication, CERIA DNALLA ATR, CHOIL, ERCT, SERFAL, EANGO and LUCE. The chemical prefreathment concrete cytosia bases anniethylated at the 5 position to uracil or another base with the transfer of a controller base with concrete that concrete cytosia bases by the CALA-LOG distillar to cytosiae, the analysis of cytosiae methylations. The DNA sequences and method are useful in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Note: The sequence data for this patent did not form part of the printed specification and was supposed to be available directly from White at the sequence as a macroi, the sequence data did not correspond to that referred to in the specification. The present data
done the cup, gene regulation. DNA replication, CHRFF. DNALL, AIR; CHRFF. BRCC'S SHRPAL; RAD50: LEG2; eytosine methylation; Ataxia telungicetaria; ATE X. Eloado, cyndrome, tamber, amper; methylation; gener ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    diagnosis of diseases (or predisposition to diseases) associated with DNA replication and in therapy of such diseases, by enabling analysis of the cytosine methylation patterns of such genes. They are especially useful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       in diagnosis and therapy of e.g. Ataxia telangiectasia, ATR-X, Bloom's syndrome, solid tumours and cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to nucleic acid sequences comprising at least 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                7596 TTTTTTTTGTTGTAGAAATTTAATTTTGGGTATAAAATTTATTGAAALTAGAALTAGTAAGTTA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          7416 HIGHAMAIATGCGFFTAAGTGTATFAGAATATTAHATTFTTTTAGGTAFGTATA 7475
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2546 ATGITATTOSTITTTOGGTITITALAFCGAAAGTGATTITTGTTTTGTLGTLGTAGAFTLLAA 2496
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              191 TGGCCATGTGTCAACAAATTAACGTTATGCTTGAAGAAAGGGGTGGGGTTGAAAAAGGCC 200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 21 IAATTTAGAATTGAGTGAGTGTTAAAGTGGGGGTTAGAAAATTGAGTAGAAGGAT 140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 251 FOATGYAFAAATATTIAGAGIIGUAGGGAAAAITGIAAIGIPAIGIAIAAIGAAIASAAIASAAI 410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     191 STASSACACATTAAASTITICATSTAAAATTISTGAATTITITAASTITIAASTIGAATTITI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Her nucleic acid sequences from chemically modified genes associated will BW replaction, useful for analysing equation methylations for differents and therepy of discuss a g. Attain telangicularia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11 FIATTA CALCACTOTTACL FECATATGAAGTGAAGAAAATATTTTAAAACTGAGTAGT 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10.5%; Score 52.6; DB 24; Length 11049; 47.4%; Pred. No. 0.014; ivc 0; Mismatches 174; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence [1049 BP; 3032 A; 198 C; 2438 G; 5381 T; d other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 1; SEV ID NO 21; 25pp + Sequence Listing; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  is taken from EPO data for the patent.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  olek A. Piepenbrock G. Berlin K.
                                                                                                                                                                                                                                                             06 APR-2001; 2001W0-EPB 9971.
                                                                                                                                                                                                                                                                                                                                           2000DE-1019173.
                                                                                                                                                                                                                                                                                                                                                                 2000DE-1032529.
2000DE-1042826.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WELL 2017-017-17/02.
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                                                                                                                                                       W0200177477 AZ.
                                                                                                        Homo sapiens
                                                                                                                                                                                                                                                                                                                  36. APR-2004;
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                                                                                                                                                                                                                                                                                                                                                                      40-JUN-2000;
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7536 ATCTTATT@PPTTLICHETTTATATPONAALTFINALITIESSIELIGIESSIEN GAA (0.99
                                                                                         201 FREDWAY ALL TABERANCAL SEAS TABLE AND STATE AND SEAS THE SEAS 
                                                            411 TCATTTTTCAGGGAGAAGGCTTGTAGATTT 441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present invention provides a number of human immune system associated can be which are modified by the methylation of cytosines. The sequences can be used in the diagnosis and treatment of immune system disorders, including eye diseases such as retinopathy, neovascular glaucoma and macular degeneration, afterioscierosis, anaemia, cancer, acute myeloid leukaemia, Allbeiner's disoase, ALES, cprincepsy, near-offbromatosis, rheumatoid arthritis, psortasis and inflammatory/alrerative bowel diseases. The present sequence is a gene of the invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Nucleic acid comprising fragment of chemically modified gene, useful for diagnosis and treatment of diseases associated with abnormal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             O; Gabs
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                                                                                                                                                                                                                                                                                                                                                                                                                                           Human: immune system diseable, cytosine methylation; antiasthmatic; antianaemie; eytosiatic; nootropic; antianaemie; eytosiatic; nootropic; newroprotective; anti HIV, anticonvolsant; ophthalmological; antithematic; antiorthritic; antidiabetic; anipsoriatic; antinitamator; cancer; ope disease, atteriosoferosis; anamia; acute mycloid lonkacma, Alahahmatic; adisease; Albs; epilepsy; neurofiboratosis; rheumatoid arthritis; psoriasis; bowel disease;
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larity 47.4%; Pred. No. 0.014;
Cosset/delive 0; Mismatches 174; Indels 0;
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                                                                                                                                                                                                                                                                                                                                                                                         Human immune system associated gene SEQ ID NO: 641.
                                          7716 GANALITTAGGICGITTAATTITAAATAI 7746
          311 TCATTTTTCAGGGAGGAGGCTTCIAGALLU 311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Berlin K;
                                                                                                                                                                                                                  ABL32668 standard; DNA; 11049 BP.
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01-SEP-2000: 2000DE-1043826.
                                                                                                                                                                                                                                                                                                                            26-MAR-2002 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WC200200928 AJ.
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                                                                                                                                                                                                                                                                       ABL32668;
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                                                                                                                                                            RESULT 3
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The present invention provides a number of human lamune system associated comes which are muchined by the methylation of cytosines. The sequences can be used in the diamons is and treatment of limitarie system disporters, including the degeneration, are timed the standard degeneration, arterloselensis, andemia, cancer, dear on myeleid leukammia, disportant of disease. Albs, epitelpsy, neurotibromatosis, rheumatoid arthitis, psortasts and inflammatory/alectative boxen diseases. The present sequence is a gene of the incention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; immune system disease; eytosine methylation; antiasthmatic; anniantenent in the interpretation of antianageis; cytostati; novitopic; annian antiformulant; ophthalmelosical; antiformulant; ophthalmelosical; antiformulant; antianabelic; antiportion antiformulant; antianabelic; antiboristic; antianabelic; antiportion antiformulant; antiportion antiportion and formulantian antiportion and formulantial antiportion antipo
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Best Local Similarity 44.9%, Prod. No. 6.13;
Matches 182, conservative Q: Mismarches 223; Indefs O;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human immune system associated gene SEQ ID No: 1219.
7716 GAATAITTITAGGTGGTTTAAITTIATATAT 7746
                                                                                                                                                                                                                                                                                                                                                                        ABL3 4246 standard; UNA; 6077 BP
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01-SEP-2000; 2000DE-1043826.
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This invention relates to chemically pre-fronted DMA of genesal associated with apoptosis. The nucleic acids are used to allocate patients for specific therapy for HTV intection, Place syndrome, cardioparthy, adjug, neurodeparative discretion, Reper Simplex Virus intection, renal ischaemia, amyotrophic lateral sclerosis, solid tumours and cancers. This nucleotide sequence represents a chemically
                                                                                                                                                                                                                                                                                                                                                                                                                       210 TANGUTATCCTBASSAAKISKATSIAGTI CAAAAAKSSA GIGALGAATAUTIRON 269
74 TIAAATITIATITIIATATITITIGGAAAAAGITIATATITIGTAAAATITIAATT 133
                                                                                                             254 FITPALTAGGITFFAATTGAGGATGTTAAGTAAAA1IAFTAGTAGTAGTAGTAATAATA 313
                                                                                                                                                                                                                                                                    150 FICATGTAAAATTTGTGAGTTCTATTTTTAACTGAAICTT11FGGCCALGTGAAAAT 209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 314 GTAGFAAGGATAAFTAGFAFIGFFFFGAITTEGFFFFGFFFFALTALTALATAGFFFFG 373
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Chemically modified sequences of genes associated with apoptosis are useful to determine Archylation patterns of genomic DNA samples for diagnosis of associated diseases such as cancer.
                                                                                                                                                                                                                                                                                                                                         194 ATTERCETTER CONTACT TO TAKE TO THE PROPERTY OF THE PARTY HEADER
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amyotrophic Lateral selerosis; cancer; ds.
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treated apoptosis gene. Even SEQ ID numbers are the complementary DNA Strands to the odd SEQ ID numbers. The sequence data for this patent is not represented in the printed specification but is based on information supplied by the European patent office.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  345 TATTTTAATTTAGATTAGTTATATTTTATTTTTATAGTGGATAGTAAGTATAGTTAGA 404
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acte mychid forkacmia; Alzheimer's disease, AlbS, epilepsy;
neurofibromatosis, rheumatoid arthritis, psoriasis, bowel disease;
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14.1%; Pred. No. 0.52;
ive 9, Mismatches 242; Indels o;
                                                                                                          Sequence 14924 BP: 4717 A: 179 C: 3064 G: 6958 T; 6 office:
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The present invention provides a number of human immune system associated genes which are modified by the methylation of cytosines. The Sequences can be used in the diagnosis and treatment of immune system disorders, including eye diseases such as rethiopathy, necovascular glancome and medular degeneration, arrethosterosis, anaemia, cancer, acute myeloid leukacmia, Alzheimer's disease, AlSE, epitelpey, neurolibromatosis, rheumatoid arthritis, psoriasis and infarmatory/ulcerative bowel diseases. The present sequence is a gene of the invention.
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(EPIG-) EPIGENOMICS AG.
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                                                                                                                                                     Olek A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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The prosent invention provides a number of human immune system associated cones which are mosffied by the relapitation of c_{II,colines}. The sequences that he disquession is treatment of immune system discretes, including ago discrete sight and treatment of immune system discretes, including ago discrete sight and treatment of manner alaurement and macular dequalection, arteriosclerosis, anaemia, canver, acute mycloid leukarmia, Alcheimer's discrete MSs, colleges, normofibromatosis, rheumatoid arthritis, psociasis and inflammatory/vieweries, evel discrete, is a gene of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          107) TTAATITTIAGALIATTIATATATIGTTITAATATITTAGGTTAATAAATI 1130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              63 CAGTACTTTAATTTACAATTTAAGTATGTGTT FTAAAGTGGGFTGGTAGGAAAAATTGACT 142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     123 AGAAGGAIGIAGGACACACIFAAAGTITICATGFAAAAITIGIGAGIFUTATITTIAAUT 182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    183 GARICTITISGICATGICACCAACAATTAACGITATGCTICACCAAAHGGTIGARITGA 242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Nucleic acid comprising fragment of chemically modified qen., useful for diagnosis and treatment of discusse associated with abnormal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             303 ATACATATECALITITICAGGGAGAAGGCITGTAGATITCATCAGAAATGITTCACAAG 462
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   46.3 AGTAGATAATGATTCAHGTATCACTTAGATGGTGAAGTTTTGCCAGHHAIA? 4.22
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neuroprotective; anti-HIV; anticonvolsant; ophthalmological; antiformatic; antiformatic; antiformatic; antiformatic; antiformatic; antiformatic; antiformatic; cancer; eye disease; arteriosclerosis; aucmia; acute myeloid intermatia; Alzhenmer's disease; Alfrs; epilepsy; neurolibromatosis; rhoumatoid arthritis; psoriasis; bowel disease,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 24; Length 8467;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Match
Local Similarity 45.88; Pred. No. 0.52;
es 194: Organitative E. Mismutchus 229; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 8467 RP: 2275 A; 157 C; 1900 G; 4134 T; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 1: SEQ 10 NO 81: 32pp · Sequence Listing: German
                                                                                                                                                                                                                                                                                                                                                                                Rorlin K;
                                                                                                                                                                                                                                                                                 30-JUN-2000: 2000DF-1032529.
                                                                                                                                                                                                                                              92-391 2001, 2001Rs RE37537
                                                                                                                                                                                                                                                                                                                                                                             Olek A. Piepenbrock c.
                                                                                                                                                                                                                                                                                                                                      (FPIG-) EPIGENOMICS AG.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            cytosine methylation
                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2002 134959/17.
                                                                                                                                                                       WG200200928-A2.
                                                                                                                                    Homo sapiens.
                                                                                                                                                                                                        03-JAN-2002.
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associated diseases. By analysing cytosine methylations in the pretreated DNA, genetic and/or opiqued to parameters for the distrosis and therapy DNA, genetic and/or opiqued to parameters for the distrosis and therapy association to specific diseases on the association. The parameters way be compared to another set of sensitive and/or opicated parameters way be compared to another set of sensitive diagnosis of the invention are associated to the diagnosis and therapy of HIV intection, neurodepower the disease, or otherwise methods of HIV intection, neurodepower the diseases and therapy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Cell cycle; human; the dinuclestide; eytesine methylation, HTV, agind, human immunodellelency wirus; neurodespeciative disorder; solid tumour; staff-versus-host disosse; tomorular disouse; Lwwy body discase; cancer; arthrilis; arteriosclerosis; anti-HTV, neuroprotective; antiarthritic; immunosuppressive; autitument; cytastatic; antiarteriosclerosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequences A8845246-AA845520 represent chemically pretreated genomic BBA molecules associated with the cell cycle and specific PGR primers of the invertient. The sequences are useful for detecting the methylation state of all the dinucleotides in a sequence and therefore the mathylation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             thomically profferind remplomentary DNA searchaft with rell equite #58.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Designing primers and probes for analysing diseases associated with cytosine methylation state e.g. arthritis, cancer, aging, arterioselerosis comprising fragments of chemically modified genes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 11046 BPC 3112 At 312 et 2278 et 5445 1; 7 attory
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Piopontrack C. Barlin M.
                                                                                                                                                                                                                                                                               AAS45411 standard; DNA; 11036 BP
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APR-2000; 2000DE-1019058.
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2000NE 1012529.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                18-DEC-2001 (first entry)
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                                                                        1191 TATT 1194
424 AATI 426
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       15 MAK-2000;
06-APR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  30-JUN 2000;
01-SEP-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            υΔ-Αρφ-Συφυί
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                                                                                                                                                                                                   RESERVE R
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O; Gaps

9.1%; Score 45.6; DB 22; Length 11036; 46.1%; Pred. No. 0.55; 1vv 0: Mismatchys 179; Indels 0;

uni , badusau,

Best Local Similarity

Matches 154;

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The invention relates to a nucleic acid, which comprises a seament of the therefore and is the content of the transcription from one of 46 sequences, and an oligomer, in particular an oligomerholide or peptide nucleic acid (PNA) eligomer that hybridises to or is idealized.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PMA: rytosine methylation state; SNP; retroviral infection; generals state methylation state; SNP; retroviral infection; generals state methylation states. Adenosine deaminase deficiency; caucer; viral infection; Bezarg sydfome, hacmatolatical disorder; tuberculosis; psoriasis; Rieger's syndrome; neurological disorder; crythropoiesis; metroderenerative disorder. Waardenbard syndrome; Riemann-lick disorder; myolotysplastic syndrome; myocardala infarction; hypertension; arthitis; and elements is cordental least disease. HDE syndrome, went therapy; polyghitamine disorder; solid tumour.
              DNA transcription associated gene, peptide nucleic acid, ENA-oligomer;
                                                                                                                                                                                                    8820 GLIAATGGAADTALAATGTAAATTIGITTTTTAIAAGTIATAITTIAAAAAGGAAAAALAA 8839
                                                                                                                                                                                                                                                                     74 PITACAATI FAAGIA KUIGTI FFAAAGIGGCIIGT FAGGAAAAA I CAMAGAAGGA FGIA I NA
                                                                             134 GGACACTTAAAGTTTTGATGTAAAATTTGTGAGTTCTATTTTAACTGAATCTTTTGG 193
                                                                                                                                                            194 CCATGLOTCAACAAATTAACGTTATCCTTCAAATGGGTGGGGGGTTGAAAAAGCGGLGA 253
                                                                                                                                                                                                                                             254 TGCATAAATATTTACAGTTGTAGGCAAAATTGTAATGTTATGTATATGAATACAATACA 414
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New nucleic acids or oligomers, useful for diagnosing or freating diseases associated with DNA transcription, e.g. immunological disorders. Westers syndrome, paoriasis, eyecutdial infarties, solid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DNA transcription associated complementary genomic DNA #69.
                                                                                                                                                                                                                                                                                                                                                  414 THITTHCAGGGAGAGAGGGTTGTAGAHTTCALC 345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 1: SEg ID No 148; 42pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AHK28264 standard; DNA; 11036 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OF ALE 2001; 2001WO:EP03974.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        96. APR 2000; 2000DE-1019058, 97-APR-2000; 2000DE-1019173.
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30-JUN-2000; 2000BK 1032529. 01-SEP-2000; 2000BF-1043826. 02-JUL-2001; 2001Wh-EP07537

03-JAN-2002

(EPIG-) EPIGENOMICS AG.

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transcription. The set of oligomer probos are useful for detecting the transcription. The set of oligomer probos are useful for detecting the cytosine methylation state and/or sinate neutocide polymorphisms (SNEs) in a chemically pretreated genomic DNA. The nucleic acids are useful for damonsium or treading diseases associated with DNA transcription of deficiency. First infection, returning infection, returning infection, returning infection, returning the methylation status), e.g., adenosine deaminase deficiency. First infection, returning infections, wener syndrome, haematological disorders, meurodegenerative disorders, Werner syndrome, neurological disorders, meurodegenerative disorders, wardenburg infarction, hypertension, angiquenesis, crythropoissis, concential near disease, infarantials, polyglutamine disorders, soild tumours associated genomic DNA molecules of the invention. Not the printed specification but was obtained in electronic formet directly from the burphean patent of fice.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8700 TELLAATITTGATTTTTTTTTTTTTTTTTTTTTTTGTGAATTTTTAGTTTAGTTAGGTTAATTTA 8759
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8820 HTTAATSSAAATATAATSTAAATTISTTITTATAASTTAITLIAAAAASTAAAAA 8879
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          74 TTTACAATTTAAGTAIGTGTTTTAAAGTGCC)IGTIAGAAAAATTCACTAGAAGGAIGTA 133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             124 GGAGAGTTAAAGTIIICALGIAAAAIIIGIGAGTICIALIIIIAAGIGAAICTEFIGG 193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            194 CCATGTGTCAACAAATIAAGGTTATGCLICACUAAAIGGGTGGGGTTGAAAAAGGGGGTGA 253
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               254 TGCATAAATATITACAGITGTAGGCAAAAFIGTAATGTTATGTATATGAATACALATTCA 313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      14 TIATCATCACISITACITICATATGAAGTGAAGAAAATATTTTAAAGTCAGTAGTFAA 73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; immune system disease; cytosine mothylation; untiasthmatic; antianiancamic, cytosidatic, uncortopia; neuroprotective; antianamic, cytosidatic, optibalmological neuroprotective; anti-HVV; anticonvulsani; optibalmological antificumatic; antiarthritic; antidiabetic; antiproriatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        antinflammatory; cancer, eye disease; arteriosclerosis; anaemia; acute myeloid leukaemia; Alchelmer's disease; Alb3, epilebsy; neurofibromatosis; rheumatoid arthritis; psoriasis; bowel disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                   9.1%, Serie 47.6, 58.5%, Lonath Liuse,
45.1%, Prod. No. 6.55,
ative 6, Mismatches 179, Indexs 0;
                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 11036 BP; 3112 A; 312 C; 2279 G, 5335 T, 7 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human immune system associated gene SEQ ID NO: 1570.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   314 TITITCAGGGAGAGGCTTGTAGAINTCATC 345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABL33597 standard; DNA; 5195 BP.
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Matches 153; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                W0200200928 A2.
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The present invention provides a number of human immune system associated genes which are modified by the methylytem of cytosines. The Separation can be used in the disonorsis and treatment of immune system disorders, including ever diseases when as rethroughtly incorparable glaucides and as rethroughtly incorparable glaucides and machine the modified development. All fines a first set in the principle diseases which as the present sequence is a gene of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4650 ATTENTENTALIANT TENTALANGARIAGESTANAS STITAAAAAAAAATTEA 4709
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4888 GEATTCARASTANANTTANATASTCARSTANATATCTCTATATANANATATCTIA 4947
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     129 ATCTACHACHACHTEAAGTTTTCAGGTAAAAHILMHUANHILGIAHHILLIAMGUHAAHUT 188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  189 TTTGGGCGATGTGTGAAGAATTAAGGTTATGGTTGAGGAAATGGGTGGGTTGAAAAAGG 248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                169 TAATCATTIALITATITATITACATEGISTIONICAAGATTITOTIAGATTIALATAALITI 428
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      219 CONCALCATAMATATTTACACTTGIAGGNAAAAIIGIAAIGIIAIGIAIGIATATGAAIAGAI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9 AATIATIAICAIPACIGRIACITTEATATGAAGFGAAGABALATIIIITAAATE AGIAG AB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Nucleic acid comprising fragment of chemically modified gene, us
for dipagesig and fromfert of lisease uscenared with abnormal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Oucry Match 9.1%: Score 45.4; DB 24; Loudth 5195; Best Local SImilarity 45.5%; Pred. No. 0.53; Matches 199; conservation 9 Mismarches 200; indite 2,
                                                                                                                                                                                                                                                                                                 Claim 1: SFC ID No 1570; 32pp · Sequence Listing: German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 5195 RP: 1437 A: 119 C: 1105 G: 2534 T: 0 other;
                                                                                                                                                            Berlin K;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAH54452 standard; DNA; 3402 BP.
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                                                                                                                                                                                                                                                                 Cytosine methylation
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AMPS 604 to AAMS 4970 represent nucleic acids (1) enreading polypeptides (11), given in AAAMS 451 to AAGM 120, from Staphyloses cas epidermidis.

(1) and (1) can have an iperterial acticity and therefore can be used to be used in was climation. The nucleic acids (1) may be used to produce the spidermidis polypeptides (11) with the production of westors confident them which are used to produce for a westor to make the production of westors the polypeptides. The polypeptides and to raise antibodies against the bacteria. The polypeptides may also be used to assay for other inhibitors of their activity and therefore dentity empropulated that any location activity and therefore dentity empropulated that any to receive inhibitors of their activity and therefore dentity empropulated any to receive the for the polyperice of the present dentity empropulations, e.g. endocarditis. AAMS 3971 to AAMS 5090 represent objected the present invention. AAMS 5091 to receive the present invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                90 GIGITTTAAAGUGGGTGFTAAGGAAAATTIJA/TAGAAGATGTAGGAGGAGAGAGAGTTAAAAGTT 149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           150 ITCATGLAAAATIIGTGAGFFCTATTFTAA/TGAATCTHIIGGCGAIGTGLCAACAAAF 209
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Nucleic acids amosting potypeptides tram Stanbylocaeus epidemidis, useful for vaccinating against intections, e.g. endowarditis -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Match 9.0%; score 45.2; 18 32; Lebth 4402; scal dimilarity 52.1%, Fred. Ro. 0.55, es 101; Conservative 0, Hismatches 93, Indels 6,

    epidermidis genomic polynucleotide sequence 8Eg 10 Not 8816

                                                                                                                                                           Staphylococous epidermidis SRI strain: intertion; diagnosis;
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                                                                                                                                                                                                         vaccination; endocarditis; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            09-NOV-2000; 2000W0-US40782.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                990S-0164258.
                                                                                                                                                                                                                                                                                         Staphylococous epidermidis.
04-SEP-2001 (first entry)
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asyfattor the diamosis or therapy of diseases associated with development, epose, is particular disease islated to be needer containing errors (IPA). The diabetes, cancer, apoptosis related diseases, synchrones associated with companital heart disease, epilopsy, diseases related histone deacetylation, Currarino syndrome, diseases related with the histone deacetylation, Currarino syndrome, diseases related with the oliversment of the brain and line diede mismallar dystrocyty and dwarfism, of the brain and line deeds are inserial for defecting the methylation state of all CpG dinucleotides within the 350 sequences of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (11) and their complementary sequences, as primer oligomachedides for
the amplification of the 350 sequences, (iI) and/or their complements and
as olinower probes for detecting the cytasine methylation state ad/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to a nucleic acid (1) comprising a sequence at least 18 bases in length of a sequent of chemically pretreated 506 (1) of genes, associated with development selected from 87 genes listed in the specification such as ACCPN, ADFN, or AFDI and comprising one of 30 sequences (ARCF998, ABR80333) or their complements. The invention is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        based on sequence information supplied to Between by
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Note: The sequence data for this patent did not form part of the printed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Novel nurleis acid useful to diagnosis and therapy of diseases associated with development genes such as diabetes, comprises a sequence of a s
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  90 GERTITIA AAGEGGCTGTIAGGAAAATTTACTAGAAGGATGTAGAAAATTTAAA 148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          30 TETCATATGAAGTGAAGAAAATAFFFTTTAAAGTGAGTGGFFLAAFTTAGAAFFTAAGTAL 89
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; development; homeobox gene; HeX; diabetos; carreer; apoptosis; bloots disease; epilepsy, histone deacetylation; muscular dystrophy; diabetism; shifts nationale polymorphism; Shi, cytosine methylation; antidiabetic; cytostaffic; antidonyulsant; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8.9%; Score 44.4; D8 24; Langth 16602;
                                                                                                                                                                                                                                                                                                                                          Human chemically modified disease associated gene SEQ ID No. 85.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 15602 BP; 4658 A; 202 C; 3747 G; 7985 T; 0 other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Berlin K;
ARN80008 stundard; DNA: 16602 BP.
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The present invention provides a number of human immune system associated fenes which are medified by the activitation of cytosines. The sequences can be used in the diagnosis and treatment of immune system disporders, including eye diseases such as retinopathy, neovascular glaucoma and macular dogeneration, arrariosolerosis, anaemia, cancer, acute myeloid leukaemia, Alzheimer's disease, Alzheimer's disease, Alzheimer's disease, and influmnatory in neurolibromatosis, theumatori aribitus, psoriasis and influmnatory in eurolibromatosis, diseases. The present sequence is a gene of the invention.
                                                                   149 TFTCALGIAAAAIITGTGAGFICIATFFFTAACHGAAHCTTTTGGCGATGTGAAAAA 208
                                                                                                                                                   209 TERACGITATCCIICACCAAAIGBSLOBGOFFBAAAAAGGOGIGAFGCAFAAATATTAC 268
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Haman, immunic system discuse, cytosince methylution, unituating antiatterioselectric, antianamente, cytosince methylution correptor, neutroperotective; anti-HWY, anticonvolsant; ophthalmological, antifrheumatic; antiarthritic; antidiabetic; antipsoriatis, artifritamente; antiarthritic; antidiabetic; antipsoriatis, artifritamente; cantiarthritic; antidiabetic; antipsoriatis anamina artifritamente; cantiarthritic; antidiabetic; antid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human immune system associated gene SEQ ID NO: 699.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       olek A, Piepenbrock C, Berlin K;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ABL32726 standard; DNA; 16602 RP
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The invention relates to a nucleic acid comprising a sequence of the bases, of a sequence of chambers ly prefers of any constitution of the bases, of a sequence of chambers with fumour suppression and concoding to the sequence associated with fumour suppression and concoding a sequence of the sequence of the sequence (SS) and sequences (SS) and sequences complementary to (SS). The mericic acid may be a peoplide nucleic acid-oligement PNAs of at least 9 nucleotides and may be a sequence complementary to (SS). The mericic acid may be a peoplide nucleic acid-oligement PNAs of at least 9 nucleotides and may be a subject to a sequence acid and sequences and may be a subject to a sequence acid to a sequence and sequences and also to be used in an entiplation state and extra sequences and tumours. The probes can also be used in a method to a discussion and/or elected parameters for the disanosis and/or thereiny of existing discusses or the predisposition to specific
                                              Human: Umour Suppressor gene; Orcogene; antitumour; eyrostalie; cancer; tumour; Ope dinuelectide; single nucleotide polymorphism; snp; eyrosine mellylation; ds.
                                                                                                                                   209 TTAAAATTATATATATAAAAATGGGTAGGATTGAAAAAAGGGGTGATGGATAAATATITAA 268
90 CTSTITT ASTRUCTITAL MANAMITAN 14 MARKELLIA DE ASELDAMENTO ASE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Tumour suppressor gene derived chemically modified sequence #488
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 269 AGLIGTAGGCAAAATTGTAATGTTATGIATATGAATACATATTCATTTTT 318
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06-APR-2000; 2000DE-1019058.
07-APR-2000; 2000DE-1019173.
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30 ITTCATATGAAGIGAAGAAAATATTTTAAAACTCAGTACTTTAAATTTAAATTTAAACTAAT 89

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Publy Match 8 99: Secret 11.4, EB 21, Length Fronts: Makelinear List Agram 49.38, Prod. No. 1.1; Makelinear 143, Conservative 0: Mismatches 146, Indels 1.

n.cu. Mo. 777, 0; Mismatches 116, Indels

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are disadvantageous to patients. The present sequence is one of the 533 genomic sequences with even tombered Seq line undertaint and the complementary sequence of the corresponding odd numbered sequence (c.g. 10.2 and 10.1 10.5% and 10.5%, except for those whose partner sequence
diseases, by analysing systems rethylations. The parameters may be compared to another set of genetic and/or epigenetic parameters, the differences serving to basis for figuration of anylon graph can exert Alleh
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44.3%; Pred, No. 1.1;
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## GenCore version 5.1.3 Copyright (c) 1993 - 2003 Compuger FFB

oM nucleic = nucleic search, using sw model

January 4, 2003, 11:03:20 ; Search time 23,9648 Seconds Run on:

(without alignments) 6411.280 Million cell updates/sec

l àtgigggaattaitaicai......tqucaaaqaiqqaaqaagc 501 US-09-776-705-4\_COPY\_15000\_15500 501 Title: Perfect score: Sequence:

IDENTITY\_NUC Gapop 10 0 , Gapext 1.0 Scoring table:

441362 seqs, 153338381 residues Searched:

Total number of hits satistying chosen parameters:

882724

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 08 Maximum Match 1008

Listing first 45 summaries

Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total above distillation.

#### SUMMARIES

|      |                |          | œ.      |                            |                 |                     |                   |
|------|----------------|----------|---------|----------------------------|-----------------|---------------------|-------------------|
| ECS. | Result         |          | Ouery   |                            |                 |                     |                   |
|      | NO.            | Score    | Match   | Match Length DH            | DH              | TD                  | Description       |
| t    |                | 4.2      | 8.4     | 354                        | 4               | US-09-134-001C-2040 | Sequence 2000, At |
| ٥    | 7              | 41.6     | 8.3     | 51952                      | *               | 947-823-1           | -                 |
| ٥    | ~              | 38       | 7.6     | 2781                       | ~               | US-08-749-522-4     | 4                 |
|      | <del>-</del>   | 37.9     | 5.5     | 61:4                       | ٠-              | US 00 212 419R 3    | er.               |
|      | u"             | 36.6     | 7.3     | 1982                       | æ.              | US 08 747-221B-13   | 13,               |
| t    | 9              | 36.6     | 7.3     | 1982                       | c.              | 21 HICT 212-80-32   | 15,               |
|      | ۲.             | £61. 61  | 7.3     | 1982                       | ₹‡              | US-09-005-051-13    | - 0               |
| U    | œ              | 36.6     | 7.3     | 1985                       | ₹*              | 38:09 005 051 15    | 15,               |
|      | ۍ              | 36.6     | 7.3     | 2144                       | æ               | 25-8155-242-80-80   | r-                |
| ۲    | 10             | 46.6     | C)      | 2144                       | , <b>~</b> .    | UN 08-747-2218 59   | 59                |
|      |                | 46.6     | 7.3     | 2144                       | ₹.              | US-09-005-051-57    | 57                |
| :    | 7.1            | 36.6     | 7.3     | 23.14                      | -               | Mo - wo-dbe-wei ext | Ç".               |
|      | 1 3            | 36.6     | 7.3     | 51259                      | ~               | -08-781-            | 209,              |
|      | ***            | 35       | r<br>Ci | 00                         |                 | 23 0 306 416 F32    |                   |
| S    | S <sup>™</sup> | 36       | 7.2     | 21 42                      | ~               | US-08-844-188-39    | 39,               |
| t,   | 16             | 3.6      | 7.5     | 2132                       | ₹.              | US-09-478 088A 49   | <br>E             |
| t    | 17             | ÷5.8     | 7.1     | 2168                       | <b>~</b> ~.     | US-08-749-522 6     | 9                 |
| t    | 18             | 45.8     | 7.1     | 4032                       | _               | US-08-107-748-3     | ~                 |
| C    | 13             | 35.8     | 7.1     | 4032                       |                 | US-08-245-809-4     | Sequence 4, Appli |
| د    | 50             | 3.5°     | 7.1     | 4035                       | Li <sup>n</sup> | PCT US92-01385-3    | 'n,               |
|      | 21             | 45.2     | 7.0     | 13737                      | T               | US 09 538-414-10    | 10,               |
|      | CI<br>CI       | æ.<br>\$ | g. 9    | 544                        | -               | 87-11238-155-20-311 | 8.7               |
|      | 7              | \$4.8    | ص<br>خ  | 5<br>1<br>1<br>1<br>1<br>1 |                 | MS-08-107-765A-28   | 9                 |
|      | 24             | 14.8     | 6.9     | 543                        | C4              | US-08-541-342 28    |                   |
|      | 25             | 34.8     | 6.9     | 546                        | ~               | US-06-310-861V-58   | 6<br>C4           |
|      | 32             | 44.8     | 6.6     | 151                        |                 | US-07-991 867B 8    | 8, A              |
|      | 27             | 44.8     | 6.9     | 1511                       | -               | US-08-107-755A-8    | Sequence 8, Appli |
|      |                |          |         |                            |                 |                     |                   |

| 13 - 14   14   15   16   17   17   17   17   17   17   17            | NMENTS  CAMING ACTED SEGORACIES BELLAN  COCKE, CAMING AND THE ACCEPTED PROCEEDINGS  64  79  79  80. 0.3074;  80. 0.3074;  80. 0.3074;  80. 0.3074;   | CLEAR CONTROL OF THE  |
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|  | Ario 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  | \$\(\text{C}\) \(\text{C}\) \(\t |
| #8: - #3: #5: #5: #5: #4: #4: #5: #5: #5: #5: #5: #5: #5: #5: #5: #5 | BESULT 1  Sequence Zebe, Application BS Patent, No. 6480 Ann.  Patent, NI. 1847 194  APPLICANT: Lynn Boucette-Stating By PRICANT: Lynn Boucette-Stating By   |   |
| <b>6.5</b> 6.5   | APP CONTRACTOR OF SECTION OF SECT | 9 7 9 9 9 9 8 8 7 7 7 7 8 8 8 8 8 8 8 8   |

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    44 AAGAAAATATTTTAAACTCAGTTTAA1TTTAGAATTTAAGTAGTATGTTTAAAGTIGC 103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  104 CRUTTANTAAAAATEJACTANAAGAISTANSA WUWITTAAAAGI FOALGIAAAA ITT 163
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Vorry Mutch 8.3%; Score 41.6; DB 3; Lingth 51952; Best Local Similarity 46.0%; Pred. No. 0.26; Matches 119: Conservative 0; Mismatches 120; Endele 0;
                                           APPLICANT: Millian, Stophen, Flitte of Millian, Stophen, Flitte of MWHITCH. Procedures and Materials for Conforther UTLE of INVENTION: Peac Resistance in Plants NIMBER of SROJENIES: 5
                                                                                                                                                                       E: Townsend and Townsend and Crew LLP
Two Embarcadoro Center, Bighth Floor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  03 68/028, 543
                                                                                                                                                                                                                                                                                                                                    MEDIUM TYPE: Floppy disk
COMPULEK: IMP PC compartible
OPFRALING SYSTEM, PC POS/MS-POS
SVETWAPP: DATANTER PC PAS/MS-POS
SVETWAPP: DATANTER PC PAS/MS-POS
APPLICATION DATA
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TELEPONE: (415) $76-0200
TELEPONE: (415) $76-0200
TELEPONE: (415) $76-0200
NPORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION SUMPER 1877."
FILING DAIE: 09-001-1997
PKIOR APPLICATION DAIA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPENDATION NUMBER, 03 60 FILLING DATE: 10-00T-1996
Applifant: Yaqkooki, Jatar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    09 си:Т= 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILLING DATE: 10-OCT-1996
ATTORING ADDITED BREEF R. NAME: BASTIAN, ROVIN L. REGISTRATION NUMBER: 34,7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  91952 base pairs
                      Bodean, John
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CLASSIFICATION: 800
PRIOR APPLICATION DATA:
                                                                                                                                             CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM:
                                                                                                                                                                                                                  San Francisco
                                                                                                                                                                                                                                              California
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                                                                                                                                                                                                                                                                  USA
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                                                                                                                                                                       ADDRESSEE
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                                                                                                                                                                                                                                                                  COUNTRY:
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                                                                                                                                                                                              STREET
                                                                                                                                                                                                                                         SIATE:
                                                                                                                                                                                                                    CITY:
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ns-08-749-522-470 : Sequence 4, Application 03/08749522 ♣ Patent No. 6096950

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APPLICANT: Insolburg, J. et al.
TITLE OF INVINITATIONS AND USES THEREFOR
TITLE OF INVENTION: AND USES THEREFOR
THE REPERENCE: JI-002CMPP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 THE HEALTH AND THE TEMPORAL PROPERTY OF THE THE THE THE TABLE AND TABLE AND TABLE AND THE AND TABLE AND TA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   95; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: Patentin Release #1.0, Version #1.25 CURRENT APPLICATION DATA:
                                          APPLICANT: John, Maliyakal
TITTL AT INVENTION: FIRER SPECIFIC PROMOTERS
NUMBER AT SEQUENCES: 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Mismatches
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1992-04-17
                                                                                                                                                                                                                             F: Omarles & Brady
411 East Wisconsin Avenue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3,18,749,522
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER: THM PC COmpatible OPERATING SYSTEM: PC-DGS/MS-DGS
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Putest Mo. 6:3:406
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) MELETULE TYPE: DNA (genomic)
US-08-749-522-4
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TELEFAX: (414) 271-8552
INFORMATION FOR SEQ ID NO: 4:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATT-KREZZAGRET INFORMATION:
NAME: Bakor Jean C.
REGISTRATION NUMBER: 35,4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LENGTH: 2781 base pairs
TYPE: nucleic acid
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PRIOR FILING DATE: 1992-0
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                                                                                                                                                                              CORRESPONDENCE ADDRESS:
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CHREKAL INFREMATIONS
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242 AAAAAGGCGTGATGCATAAATATTIACAGTTGTAGGCAAAATTGTAATGTTATGTATATG 301
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                                                                                                                                                                                                                                                                                                                                                 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANI: Stroet, Gary W.
APPLICANI: Stroet, Gary W.
APPLICANI: Wishewski, Nancy
TITLE OF INVENTION: No. 606481961 Carboxylestcras, Macleic Avid
TITLE OF INVENTION: Molecules, Proteins and Uses Thereof
CORRESPONDERS: 66
CORRESPONDER ADDRESS:
                                                                                                                                                                                                                                                                                                   MICE TOTAL STOLE 37.4; LB 4; Length 0124; Local Similarity 53.0%; Prod. No. 1.7; os 80; Conservative 0; Mismatches 71; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READBLE FORM:
MEDLUM TYPE: Floppy disk
CMEDITER. IEM PC computible
OPERATING SYSIEM: Windows 95
SOFTWARE. Worderlevel 104 Windows, Version 7.0
GUPPRY APPLICATION DATA.
PFLING TOATS. No. 606 841 comber 12, 1996
CLASSIFICATION: 435
ATTORNEY AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADDRESSE: Carol Talkington Verser, Ph.D. ADDRESSE: Heska Corporation STREET: 1825 sharp Point brive CITY: Fort Collins STATE: Colorado
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3851 AAAAATGGAAACCIIAGCIICCAATTGCTI 3881
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           362 GACTACATAATCATGATGAGIIAGGI 392
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Reserve 747-221B 13
Sequence 13, Application 28/0874/221B
Patent No. 5063610
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME: Verser, Carol Tarkington
REGISTRALION UNDER: 37 459
REBECENDELOCKET NUMBER: FC-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 970/484-9505
                    IYPE: DNA
ORGANISM: Plasmodium falciparum
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEFAX: 970/484-9505
INPORMATION FOR SEQ ID NO. 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 1982 nucleotides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1982 nucleotides
                                                                             NAME, KEL. CDS
LOCATION: (2407)...(2439)
NAME, KEY. CDS
INCOLOCATION: (2598)...(3404)
NAME, KEY. CDS
LOCATION: (2580)...(3720)
NAME, KEY. CDS
LOCATION: (380)...(3720)
NAME, KEY. CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TOPOLOGY: linear
MOLECULE TYPE: CDNA
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LENGTH: 6124
TYPE: DNA
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                                                                                                                                                                                                                                                                                              200ry Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURE:
                                                                                                                                                                                                                                                                                                                                       Matches
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Query Hatel,

Rest Local Similarity 65.1%; Pred, No. 2.1;
Matches 64: Conservative 0; Hismatches 5, indels 0; daps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         7.4%; SCOTE 46.6; DH 3; Length 1982;
55.1%; Pred. No. 2.1;
five 0; Mismatches 29; Ind. 8 ii: daps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER BEADABLE PORNI
MERLUM TYPE: Florgy disk
MERLUM TYPE: Florgy disk
COMPUTER: HW PC compatible
OPERALINI SYSTEM: Windows 95
SOFTWARE: Windows 95
SOFTWARE: Windows 95
CUPPERIOR BORDER: 12, 1996
FILING DATE: NO. 608 66 Ocmbor 12, 1996
CLASSIFOATION: 435
ATPONIOR TOWN 435
ATPONIOR TOWN 435
ATPONIOR TOWN 137,459
PETERRELIC TOWN 101 TOWN 101
PETERRELIC STATE TOWN 101
PETERRELIC STATE TOWN 101
TELECOMMENTATION: 17,459
TELECOMMENTATION: 17,459
TELECOMMENTATION: 17,750
TELECOMMENTATION: 17,750
TELECOMMENTATION: 17,750
                                                                                                                                                                                                                                       1960 TTATATHTAAAAFAAAATIAFGI 1982
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                                          NAME, HILL ASS ASS OF SEPTIONS 800
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IMPORMATION BUR SEC 15 NO. 15:
SEQUENCIE CHRANTIBELSTICS:
LENGTH: 3 CO. 100.
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nucleic acid
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54: Conservative
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NAME/KEY: CDS
LOCATION: %[...1517
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TOPOLOGY: Linear
: MOLECULE TYPE: CUNA
FS-09-747-22:B-15
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                                                                         US-08-747 221B 13
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Best Local S
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9 ANTIALIATOATCAPIOTTACITICATATGAAGTGAAGAAAATATTITIFAAACIFVAGTAJ 48
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APPLICANT: Wishewski, Nancy
TITLE OF INVESTIN: R., 6291222cl Castuxyleater Enclose Acid
TITLE OF INVESTIN: Molecules, Proteins and Uses Thereof
NUMBER OF SEQUENCES: 66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Silver, dary W. APPLICANT: Wisherwaki, Manucy APPLICANT: Wisherwaki, Manucy in the limbal de to, to to see Silvel Sathowy); eletane Health Acid FILLE of INVENTION. Molecules, Fruteins and Baes Thereof
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Guery Match 7.3%; Score 36.6; DR 4; Ecneth 1982; Rost Local Similarity 65.1%; Pred. No. 2.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           29; Indels
                                                                                                                                                                                                                                                                                                          MISTUM IYES: Flappy disk
computer: IBM PC computed ible
computer: IBM Windows 95
SOFTWARE: WordPertect for Windows, Version 7.0
                                                                                                                             AUDRESSEL: Carol Taikindton Versor, Ph.D. AUDRESSEL: Heeka Corporation SIRECT: 1825 Starp Point, Drive CITY: Fort Collins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADDRESSEE: Carol Falkington Verser, Ph.D.
ADDRESSEE: Hoska Corporation
STREET: 1825 Sharp Point Drive

    Mismatches

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FILIN: DAIE: NO. 02912020mber 12, 1996
ATHORNEY/AGENT INFORMATION:
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; Fatent No. 6064610
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME: Verser, Carol Talkington
NGOISTANTOR BUMBER: 27,459
HEFERENCE,FOCKET NUMBER: FC-1
TELECOMMUNICATION INFORMATION:
TELEFRONE: 970/49:-7272
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TELESAX, 976/484-9505
AMATIAN FA SEQ ID NO: 15:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LENGTH: 1982 nucleotides
                                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION DATA: APPLICATION NUMBER, US/
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PRIOR APPLICATION DATA:
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CORRESPONDENCE ADDRESS:
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: MOLECOLE TYPE: CBNA
US-09-005-051-15
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                                                                                                                                                                                                                    THILE OF INVENTION: No. 6291222cd Carboxylesterase Nucleic Acid
THILE OF INVENTION: Molecules, Proteins and Uses Thereot
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    7.4%; Segre 36.6; 1944; Lemeth 1982;
65.1%; Pred. No. 2.1;
tipe 0, Mismatches 29, (adels 6)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER: IBM DC Promptible.
OPERALIMS SYSTEM: Windows or SOPIWARE: WordPerfect for Windows, Version 7.0 SURLEM: APPLICATION AND APPLICATION PROFESS.
                                                                                                                                                                                                                                                                                                        ADDRESSEE: Carol Talkington Versor, Phili-
ADDRESSEE: Heska Corporation
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APPLICATION THERE. 08.71.221
FILLING TALE: No. 09.2000mber 10, 1995
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: US, 209, 2007
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME: Verser, Carol Lalkington
REGISTRATION NUMBER: 37,459
                                                                                                                                                                                                                                                                                                                                                   1825 Sharp Point Orive
                                                                                                        Sequence 13, Application (Synegoross)
Patent No. 6291222
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE/ESCRET NUMBER: FS-1
FELECOMMUNICATION INFORMATION:
TELEPHONE: 970,7192-7272
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INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                        APPLICANT: Silver, Cary W
APPLICANT: Wisnewski, Nancy
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LOCATION: 300
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPILER
                                                                                                                                                                                                                                                               NUMBER OF SEQUENCES: 66
CORRESPONDENCE ANDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: nucleic acid
STRANDEDNESS: simple
                                                                                                                                                                                                                                                                                                                                                                                                                                                          MANULER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                      CITY: Fort Collins
STATE: Colorado
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LOCATION: 31..1517
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res 54; Conserva
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                                                                                                                                                                                                                                                                                                                                                                                                                      COUNTRY: USA
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                                                                                    11S - 019 - 0105 - 015 1 - 1 4
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Best Local S
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O; Gaps
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APPLICANT: Wisnewski, Naucy
TITLE OF INVENTION: No 6064410el Carboxylesterash Nucleic Acid
TITLE OF INVENTION: Molecules, Proteins and Uses Thereof
NUMBER OF SEQUENCES: 66
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l Similarity 55.1%; Pred. No. 2.2;
54; Conscruativo 9, Mismatches 20, inders 9;
           OPERATING SYSTEM: windows 95
SOFTWARE: WordPerject for Windows, Version 7.0
CURRENT APPLICATION DATA: US/C8/747,221B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADDRESSEE: Carol Talkington Verser, Ph.D. Abbressee: Heska Corporation STREET: 1825 Sharp Point Drive CITY: Fort Collins STATE: Colorado
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NO. 6063610ember 12, 1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Resolt to
198747-2218-59/c
198748nce 59, Application US/U8747221B
198761 No. 60636ju
19878al INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATTORNEY/AGENT INFORMATION:
NAME: Verser, Carol Talkington
REGISTRATION NUMBER: 37,459
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       69 TITAAITIACAATIIAAGIAIGT 91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER KRALABLE FORM:
MEDIUM IYPE: FLOPPY disk
COMPUTER: IBM PC compatible
                                                                                                                                                                                                                                                                                                                                                                               : NAME/KEY: Asx = Asn or Asp
; LOCATION: 462
US-08-717 221B 57
                                                                                                                                                                                                                       57:
                                                                                                                                                                                                   TELEFAX: 970/444-9502
INPORATION FOR SEQ ID NO. 57
SEQUENCE CHARACTERISTICS:
LENGTH: 2144 mucleotides
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                TYPE, nucleus acid
STRANDEDNESS: single
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                                                                                                                                                                                                                                                                                                                                                     LOCAFION: 50..1682
                                                                                                                                                                                                                                                                                                      MOLECULE TYPE: CDNA
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                                                                                                                                                                                                                                                                                             Linear
                                                                                                                                                                                                                                                                                                                                    NAME/KEY: CDS
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Query Match
Best Loral Similarity 65.1%; Pred. No. 2.2;
Matches 54; Conservative 0; Mismatches 29; Indets 0: Maps
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APPLICANT: Wisnewski. Nancy
TITLE OF INVENTION: No. 6291222-1 Curt. Applicaterise Wholeie Acid
FILE OF INVENTION: Molecules, Proteins and Uses Thereof
                                                                                                                                                                                                                   of Semilarity (5.18; Prod. No. 2.2)

Willarity (5.18; Prod. No. 2.2)

Williamity (5.18; Prod. No. 2.2)
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55.1%; Pred. No. 2.2;
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OPERATURG SYSTEM: Windows 95
SPETMARE: WordPerteet for Windows, Version 7.0
CURRENT APPLICATION DAIA.
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ADDRESSEE: Heska Corporation
STREET: 1825 Sharp Point Drive
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FILING DATE: No. 6291222cmber 12, 1994
ATTORNEY/AGENT INFORMATION:
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REGISTRATION NUMBER: 37,459
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                                                                                         LOCATION:
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FEATURE:
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Bost Local a
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                74; Indets
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Mullique, John T. APPLICANT: Schellenberg, Gerald D. LITLE OF INVENTION: GENE AND GENE PRODUCTS RELATED TO TITLE OF INVENTION: WERNER'S SYNDROME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               E: SEED and BERRY LLP
6300 Columbia Center, 701 Fifth Avenue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6809 ALLAGGEATGFAATATATTHATCGIATCTCCAGG 5843
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATTARMIN/ACHMI INFORMATION:
NAME: No. 6090620tenburg Ph.D., Carol
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                                                                                                                                                                                                                                                                 Sequence 200, Application US/08781891
Putch( No. 6090620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; Segmence 535, Application US/08998416
; Patent No. 6239264
23 TTSTATTTANATANATATATOF 1
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INFORMATION FOR SEQ ID NO: 209:
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APPLICANI: Pohlmann, Rainer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (206) 622-4900
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          508
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Oshima, Junko
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE CHARACTERISTICS:
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APPLICANT: Yu, Chang-En
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MEDICH TYPE: Floppy
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REGISTRALION NUMBER:
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                                                                                                                                                                             RESULT 13
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69 ITITAATITAACAATITAAGIATGITTITAAAGIGGGGIGITAGGAAAAALIUACIAGAAGG 128
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 535 AAATCTAATATTIATCTAAAGTATAAATTAATTAATCTTITIAAATTIA 594
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APPLICANT: Mohr, Christine
APPLICANT: Wendland, Jurgen
APPLICANT: Knechtle, Philipp
APPLICANT: Rebischung, Corinne
TITLE OF INVENTION: GENOMIC DNA SEQUENCES OF ASHBYA GOSSYPII
TITLE OF INVENTION: AND USES THEREOF
NUMBER OF SEQUENCES: 1152
CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                             MEDIUM TYPE: Floppy disk
COMPUTER: 1BM PC Compartable
OPERATING SYSTEM. PC-TOSYMS-DOS
SOFTWARE: PATENTIN Release #1.0, Version #1.30
APPLICATION NOMBER: OS/08/998.416
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                                                                                                                                                                           ADDRESSE: No. 6239264artis Corporation
STREET: 3054 Cornwallis Road
CITY: Research Triangle Park
STATE: No. 6239264th Carolina
                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: 05/08/596,416
FILING DATE: 24-bEC-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: CH 0016/97
FILING DATE: 31-DEC-1996
AITORNEY/AGENT INFORMATION:
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Timothy
Timot 38,241
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   827 base pairs
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FDNESS: single
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REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                 USA
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79 TTAAYTTACAALTITAASTATGICHTI LAARSTANCICLI LASGAAAAA LICAGLASGA SA 129
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Local Similarity 44.8%; Pred. No. 3;
Local Similarity 44.8%; Pred. No. 3;
Los 188; Conservative 0; Mismatches 170; Indels
655 CONTAINANT SHERE TATABAAA IA IA HAAAGATII 695
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SOFTWARE: Patentin Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                             242) N.W. 41st Stroet, Suite A-1
                                                                                                                                                                                     APPLICANT: Knuth, Mark
APPLICANT: Follord, Michael K.
APPLICANT: Cardineau, Coy
APPLICANT: Schwib, George E.
TITLE OF INVENTION. Festicidal Toxins
NUMBER OF SUCHENES: 45
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION EDBES: 105 08/635,995
FILING DATE: 19-APR-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CONNELL ALLEGATION DATA: APPLICATION NIMES: APPLICATION NIMESE
                                                                                                   Sequence 39, Application US/08844188
Patent No. 6127180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ATTORNEY AGINE INCOMPTION:
NAME: SANGEY, JAY,
REGISTRATION NUMBER: 39, 455
HEFERRACL/T-CYLL MARREE, HA 74
TELECHONICAL TON INFORMATION:
TELECHONE: 352-375-8100
TELECHONE: 352-375-8100
                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER KENDABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: ISM Ft compatible
OPENATING WATER: T. No., WE.
                                                                                                                                                                       Schuepi, H. Ernest
Knuth, Mark
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE: DNA (genomic)
                                                                                                                                                      Narva, Kenneth E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEFAX: 352-472-5800
INFORMATION FOR SEQ ID NO: 39:
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                                                                                   JS-08-844-188 33/1
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Search completed: January 4, 2004, 15:14:01 Job time : 79,9648 sees

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GenCore version 5.1.3
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Run on:

January 4, 2003, 11 0% 20 % Search time 23.9048 Seconds (without alignments) 6411.280 Militen cell updates/sec

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Scoring table: IDENTITY\_NUC Gapext 1.0

441362 segs, 153338381 residues Searched:

882724 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

1: [PREZ\_F PREST\_C. DO. NA\_CHRISTORY | CONTROL STATE | CONTROL lssued\_Patents\_NA:\* Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

### SUMMARIES

| No.   Scotte   Natch Length   Description   | Scotte Match Length DB 1D  45 90 7124 4 05-09-217-129B 3  88.2 7.6 724 4 05-08-228-46.1 b. 1  88.2 7.6 724 4 05-08-228-46.1 b. 1  88.2 7.6 724 4 05-08-298-416-191  88.2 7.6 854 4 05-08-998-416-538  87.3 82 7.5 828 4 05-08-998-416-538  87.4 7.5 828 4 05-08-998-416-538  87.5 82 7.5 828 4 05-08-998-416-538  87.8 7.3 8685 1 05-08-998-416-538  87.3 8685 1 05-08-998-416-78  87.3 8685 1 05-08-998-416-78  87.3 8685 1 05-08-998-416-78  87.4 105-08-998-416-78  87.2 8685 1 05-08-60-754-1  88.7 7.2 8685 1 05-08-660-754-1  88.7 7.2 4184 2 05-08-660-754-1  88.7 7.2 4184 2 05-08-660-754-1  88.7 7.2 4184 2 05-08-660-754-1  88.7 7.2 4184 2 05-08-660-754-1  88.7 7.2 4184 2 05-08-660-754-1  88.7 7.1 10955 1 05-08-245-809-5  88.4 7.1 10955 1 05-08-1018-29   |            |                 | <b>*</b> |            |          | SUMMAKIES                                      |             |
|---|---|------------|-----------------|----------|------------|----------|--|-------------|
| No. Scote Match Length Db 1D Descripting 1 45 9 0 7218 1 0 5 68 23 4 2 1 4 5 9 0 7218 1 0 5 68 23 4 2 1 4 5 9 0 7218 1 0 5 68 23 4 2 1 4 5 9 0 7218 1 0 5 68 23 4 2 1 4 5 9 0 7218 1 0 5 68 23 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  | No. Scote Match Length Db 1D  1 45 9 0 7218 1 05-09-217 479B 3  2 38.2 7.6 724 4 05-08-217 479B 3  3 88.2 7.6 724 4 05-08-917-191  4 38.2 7.6 724 4 05-08-918-415-191  5 38.2 7.6 724 4 05-08-998-416-1039  3 7.4 7.5 724 4 05-08-998-416-538  9 37.4 7.5 828 4 05-08-998-416-538  10 36.8 7.2 828 4 05-08-998-416-538  11 36.8 7.3 882 1 05-08-998-416-538  12 36.4 7.3 8952 1 05-08-03-0-06-3  13 8 7.2 711 4 05-08-998-416-786  14 36 7.2 711 4 05-08-998-416-786  15 36 7.2 711 4 05-08-998-416-786  16 36 7.2 711 4 05-08-998-416-786  17 36 7.2 711 4 05-08-998-416-786  18 7.2 4164 2 05-08-66-754-1  18 7.2 4164 2 05-08-66-754-1  20 36 7.2 4164 2 05-08-66-755-1  21 35.7 7.7 4164 2 05-08-66-755-1  22 43.3 7.2 4164 2 05-08-66-755-1  23 35.6 7.2 4164 2 05-08-66-755-1  24 35.4 7.1 10365 1 05-08-245-809-5  25 35.4 7.1 10365 1 05-08-245-809-5  26 35.4 7.1 10365 1 05-08-669-1018-29  | Result.    |                 |          |            |          |  |             |
| 1 45 9 0 6124 4 US-08-212 4198 3 Sequence 3 86.2 7.6 7.8 1 US-08-212 4198 3 Sequence 4 5 9.0 7218 1 US-08-212 4198 3 Sequence 5 88.2 7.6 83.4 US-08-98-416-10.5 Sequence 5 88.2 7.6 83.4 US-08-98-416-10.5 Sequence 6 87.8 82.7 7.6 83.4 US-08-98-416-28.4 Sequence 6 87.8 82.7 8.6 83.4 US-08-98-416-28.4 Sequence 10 86.8 7.3 885.5 US-08-98-416-2.8 Sequence 11 86.8 7.3 885.5 US-08-98-416-2.8 Sequence 12 86.4 7.3 885.5 US-08-98-416-2.8 Sequence 13 86.4 7.3 885.5 US-08-66-7.2 10 Sequence 14 85 7.2 711 4 US-08-98-416-7.8 Sequence 15 86.4 7.3 885.5 US-08-66-7.2 10 Sequence 15 86.7 7.4 10 Sequence 16 86 7.2 714 4 US-08-98-416-7.8 Sequence 16 86 7.2 714 4 US-08-98-7.2 8.2 Sequence 17 86.8 7.2 714 4 US-08-7.2 8.2 Sequence 18 86 7.2 714 4 US-08-7.2 Sequence 18 86 7.2 713 80.0 Sequence 18 86 7.2 86 7.2 86 7.2 86 7.2 86 86 86 86 86 86 86 86 86 86 86 86 86   | 1 45 9 0 6 124 4 US-09-217 1298 5 3 8 8 2 7 6 724 4 US-08-217 1298 5 5 8 8 2 7 6 724 4 US-08-217 1298 5 5 8 8 2 7 6 724 4 US-08-217 1298 5 5 8 8 2 7 6 724 4 US-08 99 8 416 191 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   | NO.        | SCOLE           | - !      | Length     | ЬB       | 41.  | Description |
| 2 45 9.0 7218 1 05.08-530-452.11 Sequence 4 98.2 7.5 4.0 4.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0  | 2   | ن<br>ت     | 45              | C<br>O   | 6124       | ₹,9      | 1 2 1 2 1 2 1 2 1 2 1                          | 1           |
| 3 38.2 7.6 7.5 4 0.5 0.8 4.5 0.8 4.5 0.8 5.8 4.4 0.8 5.8 4.8 4.8 5.8 4.8 5.8 4.8 5.8 4.8 5.8 4.8 5.8 4.8 5.8 4.8 5.8 4.8 5.8 4.8 5.8 4.8 5.8 4.8 5.8 4.8 5.8 4.8 5.8 4.8 5.8 4.8 5.8 4.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5  | 3 8 8 2 7 6 7 1 4 0 5 0 8 5 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   | 2          | 45              | 0        | 7218       | _        | 1  | ,           |
| 4 38.2 7.6 724 4 05 on 20 410 101 Sequence 38.2 7.6 724 4 05 on 20 410 101 Sequence 38.2 7.6 724 4 05 on 20 410 101 Sequence 58.2 7.6 724 4 05 on 20 410 101 Sequence 58.2 7.6 860 4 05 on 20 410 534 Sequence 37.4 7.5 4821 3 05 09 498-416 538 Sequence 10 36.8 7.5 4821 3 05 09 498-416 538 Sequence 11 36.8 7.3 882 1 05 09 40 40 50 60 60 60 60 60 60 60 60 60 60 60 60 60   | 4 38.2 7.6 7.4 4 0.5 ve 7.9 4 10.5 ve 7.9 4 10.5 ve 8.9 4 10.5 ve 9.9 4 | (          | ٠.              |          | 01 - /     | ٠, .     | 101100   | 7           |
| 4 38.2 7.6 72.4 4 DS UM JUS 416 083 Sequence 38.2 7.6 72.4 4 DS OR-948-416-1048 Sequence 38.2 7.6 854 4 US-08-998-416-1048 Sequence 9 37.8 7.8 881 4 US-08-998-416-184 Sequence 9 37.4 7.5 882 4 US-08-998-416-184 Sequence 10 36.8 7.3 882 1 US-08-998-416-184 Sequence 11 36.8 7.3 882 1 US-08-998-416-184 Sequence 12 36.4 7.3 882 1 US-08-998-416-184 Sequence 13 4 7.2 414 4 US-08-98-416-184 Sequence 14 4 US-08-98-416-184 Sequence 14 4 US-08-86-162-1 Sequence 15 36 7.2 414 4 US-08-98-416-184 Sequence 15 36 7.2 413 2 US-08-66-162-1 Sequence 15 36 7.2 413 2 US-08-66-162-1 Sequence 15 36 7.2 413 2 US-08-86-98-1 Sequence 15 36 7.2 413 2 US-08-86-98-1 Sequence 15 36 7.2 413 3 US-08-86-98-98-5 Sequence 16 36 7.2 413 3 US-08-86-98-98-5 Sequence 16 36 7.2 413 3 US-08-86-98-98-5 Sequence 16 36 7.2 413 3 US-08-86-98-98-5 Sequence 17 US-08-10-18-8-98-98-98-98-98-98-98-98-98-98-98-98-  | 4 38.2 7.6 724 4 03 08 4794 416 10883   5 38.2 7.6 732 4 03 08 4794 416 10348   7 38.2 7.6 854 4 05 08 998 4416 534   8 37.4 7.5 82.8 4 05 08 998 4416 534   10 36.8 7.3 82.8 7.3 82.8 7.3 87.1 1   11 36.8 7.3 87.8 7.1 62.8 8.2 14.7 1   12 36.4 7.3 87.8 7.1 62.8 8.2 14.7 1   13 8.7 7.2 7.1 4 02.0 8.9 4416 786 1   14 36 7.2 7.1 4 02.0 8.9 4416 786 1   15 36 7.2 7.1 4 02.0 8.9 60 754 1   16 36 7.2 7.1 4 02.0 8.9 60 754 1   17 36 7.2 7.1 4 02.0 8.9 60 754 1   18 7.2 7.2 7.1 4 02.0 8.9 60 754 1   18 7.2 7.2 7.1 4 02.0 8.9 60 754 1   18 7.2 7.2 7.1 4 02.0 8.9 60 754 1   18 7.2 7.2 7.1 4 02.0 8.9 60 754 1   18 8 7.2 7.2 7.1 4 02.0 8.9 60 754 1   18 8 7.2 7.2 7.1 4 02.0 8.9 60 754 1   18 8 7.2 7.2 7.1 6 7.2 8.9 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2   | n .<br>د   |                 |          | 8.00       | 7        | - 泉から - 泉の -                                   | 101         |
| 5 38.2 7.6 53.2 4 GS 08-998-416-j63 Sequence  | \$ 38.2 7.6 73.4 405.08-9944[6-1036   | 4          | 38.5            | 7.6      | 734        | -7       |  |             |
| 6         38.2         7.6         854         4         US-08-998-416-553         Sequence           7         78.8         7.6         48.2         4         US-08-998-416-538         Sequence           9         7.4         7.5         4821         3         Sequence         Sequence           1         36.8         7.3         865         1         Sequence         Sequence           11         36.8         7.3         865         1         Sequence         Sequence           11         36.8         7.3         865         1         Sequence         Sequence           12         36.4         7.3         18.0         18.0         Sequence         Sequence           13         87.2         41.4         18.0         99.4         16.2         Sequence           16         36         7.2         41.4         18.0         Sequence         Sequence           16         36         7.2         41.4         18.0         Sequence         Sequence           17         41.4         18.0         89.9         416.7         Sequence         Sequence           18         7.2         41.4         18.0  | 6         38.2         7.6         854         4         US-08-998-416-534           8         37.8         7.5         860         4         US-08-998-416-287           9         37.4         7.5         82.8         10.0         8-98-416-287           10         36.8         7.3         4821         3.0         6.0         4.0         9.0         8-98-416-287           11         36.8         7.3         4821         3.0         9.0         8-98-416-287         10.0         9.0         10.0         9.0         10.0         9.0         10.0         9.0         10.0         9.0         10.0         9.0         10.0         9.0         10.0         9.0         10.0         9.0         10.0         9.0         10.0         9.0         10.0         9.0         10.0         9.0         10.0         9.0         10.0         9.0         10.0         9.0         10.0         9.0         10.0         9.0         10.0         9.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0   | LC,        | C1<br>00<br>2°1 | 4-       | 733        | 7        |  |             |
| 7 38.2 7.6 80.4 4 US-08-998-416-234 Sequence 37.8 7.8 7.8 7.8 4 US-08-998-416-234 Sequence 37.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8   | 7 38.2 7.6 86.9 4 0.5.08.998.416.287 8 7.8 7.5 82.8 4 0.5.08.998.416.287 9 37.4 7.5 82.8 4 0.5.08.998.416.287 9 37.4 7.5 82.8 4 0.5.08.998.416.287 9 37.4 7.3 86.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5  | ې          | 0.00            | , ,      | 1 4        | ٠.       |  |             |
| 87.8         7.5         88.0         4 US-08-948-416-287         Sequence           9 37.4         7.5         4821         3 US-08-948-416-287         Sequence           9 37.4         7.5         4821         3 US-08-948-416-538         Sequence           11         36.8         7.3         862.1         1.5         Sequence           12         36.4         7.3         862.1         Sequence         Sequence           13         8.6         7.2         1.1         4 US-08-60-06-2         Sequence           15         36         7.2         414         4 US-08-416-786         Sequence           16         36         7.2         414         4 US-08-416-786         Sequence           16         36         7.2         414         4 US-08-460-754-1         Sequence           17         414         4 US-08-660-754-1         Sequence         Sequence           18         36         7.2         414         4 US-08-66-754-1         Sequence           18         36         7.2         414         4 US-08-66-754-1         Sequence           20         36         7.2         414         4 US-08-66-754-1         Sequence   | 8 37.8 7.5 82.8 4 05.08.4918.416.287<br>9 37.4 7.5 4821 3 05.08.416.287<br>10 36.8 7.3 4821 3 05.08.416.538<br>11 36.8 7.3 8585 1 05.08.630.096.3<br>12 36.4 7.3 5852 1 05.08.630.096.3<br>13 5 7.2 711 4 05.08.698.416.786<br>14 36 7.2 4164 2 05.08.660.754.1<br>15 36 7.2 4164 2 05.08.660.754.1<br>16 36 7.2 4164 2 05.08.660.754.1<br>17 36 7.2 4164 2 05.08.660.754.1<br>18 7.2 4164 2 05.08.660.754.1<br>19 36 7.2 4164 2 05.08.660.754.1<br>20 36 7.2 4164 2 05.08.660.754.1<br>21 453 2 05.08.660.754.1<br>22 453 2 05.08.660.754.1<br>23 35.6 7.1 403.3 1 05.08.76.252.2<br>24 35.4 7.1 10366 1 05.09.67.748.4<br>25 35.4 7.1 10366 1 05.08.69.5<br>26 35.4 7.1 10365 1 05.08.69.5<br>27 35.4 7.1 10365 1 05.08.69.5<br>28 35.4 7.1 10365 1 05.08.748.4   |            |                 |          | # (<br>) ( | ÷ .      | US-U8-998-416-534                              |             |
| 9 37.8 7.5 828 4 05.08-998-416-538 Sequence 10 36.8 7.3 410 1 55.08-998-416-538 Sequence 11 36.8 7.3 410 1 55.08-598-416-538 Sequence 11 36.8 7.3 582.2 10.5 58.6 57.106-2 Sequence 12 36.4 7.3 582.2 1 05.07-867-106-2 Sequence 13 5.7 7.2 714 1 05.08-60-754-1 Sequence 14 36 7.2 714 1 05.08-60-754-1 Sequence 17 36 7.2 714 1 05.08-60-754-1 Sequence 17 36 7.2 716 5 PCT-US95-02520-1 Sequence 18 7.2 718 5 PCT-US95-02520-1 Sequence 18 7.2 718 5 PCT-US95-02520-1 Sequence 18 7.2 718 718 718 718 718 718 718 718 718 718  | 17.8   7.5   82.8   4 0.50.8 + 998 + 416 + 538     36.8   7.3   210   1 0.5 0.8   228   4.15     10. 36.8   7.3   210   1 0.5 0.8   228   4.17     11. 36.4   7.3   585.5   1 0.5 0.8   228   4.15     12. 36.4   7.3   585.5   1 0.5 0.8   6.65     13. 36   7.2   711   4 0.5 0.8   6.65     14. 36   7.2   416.4   2 0.8   6.65     15. 36   7.2   416.4   2 0.8   6.65     16. 36   7.2   416.4   2 0.8     17. 4   2 0.8   6.6     18. 7. 2   416.4   5   67   6.7     19. 36   7. 2   416.4   5   67   6.7     10. 36   7. 2   40.3   1     10. 49.3   1 0.8   6.7   6.7     10. 49.3   2 0.8   6.7     10. 49.3   2 0.8   6.7     10. 49.3   2 0.8     10. 49.3   2 0.8     10. 40.5   1 0.8      |            | 4.00            | 0.       | 960        | *        | 08-338-416-                                    |             |
| 9 37.4 7.5 4821 3 US 08 913 374.1 Sequence 10 36.8 7.3 8885 1 US 08 228 417.5 Sequence 11 36.8 7.3 8885 1 US 08 228 417.5 Sequence 12 36.4 7.3 8885 1 US 08 269.095.2 Sequence 13 6.4 7.3 8885 1 US 08 69.98 416.78 Sequence 14 36 7.2 711 4 US 08 998 416.78 Sequence 16 36 7.2 416.4 US 08 998 416.78 Sequence 17 36 7.2 416.4 US 08 60.75 1 Sequence 18 36 7.2 417.4 US 08 998 416.78 Sequence 19 36 7.2 413.3 US 08 60.75 1 Sequence 19 36 7.2 413.3 US 08 60.75 1 Sequence 19 36 7.2 413.3 US 08 60.75 1 Sequence 19 36 7.2 413.3 US 08 60.75 1 Sequence 19 36 7.2 413.3 US 08 60.75 1 Sequence 19 36 7.2 413.3 US 08 60.75 1 Sequence 19 36 7.2 413.3 US 08 60.75 1 Sequence 19 36 7.2 413.3 US 08 60.75 1 Sequence 19 36 7.2 413.3 US 08 60.75 1 Sequence 19 35.4 7.1 10.45 1 US 08 10.75 48.4 Sequence 10 60.75 1 US 08                                       | 9 37.4 7.5 4821 3 0.08 913 374-1 10 36.8 7.3 8785 1 0.03 88 628 417-5 11 36.4 7.3 8785 1 0.03 88 628 417-5 12 36.4 7.3 8785 1 0.05 98 628 628 617-6 13 5.4 7.3 5852 1 0.05 98 446-786 14 36 7.2 4164 2 0.05 98 446-786 15 36 7.2 4164 2 0.05 98 60-754-1 16 36 7.2 4164 2 0.05 98 60-754-1 17 36 7.2 4164 2 0.05 98 60-754-1 18 36 7.2 4164 2 0.05 98 60-754-1 18 36 7.2 4164 2 0.05 98 60-754-1 21 36 7.2 4164 2 0.05 98 60-754-1 22 435 7.2 4164 2 0.05 98 60-754-1 24 35 7.2 4164 2 0.05 98 60-754-1 25 35 6 7.1 1035 1 0.05 9055 0.25 0.25 25 35 6 7.1 10356 1 0.5 98 60-5 26 35 4 7.1 10356 1 0.5 98 60-5 27 35 4 7.1 10356 1 0.5 98 60-5 28 35 4 7.1 10356 1 0.5 98 60-5 28 35 4 7.1 10465 3 0.5 98 60-101A-29  | <b>x</b> o | 37.8            | 7.5      | 828        | 4        | 08-998-416-53                                  |             |
| 10 36.8 7.3 210 1 5.5 08 6.26 117-5 sequence   11 36.4 7.3 595.2 1 05.09-03-096.3 sequence   12 36.4 7.3 595.2 1 05.09-03-096.3 sequence   13 36.7 2 714 1 05.03-03-04-10-2-20   14 36.7 2 714 1 05.03-03-04-10-2-20   15 36.7 2 4164 1 05.03-04-10-2-20   16 36.7 2 4164 1 05.03-04-10-2-20   17 36.7 2 4164 1 05.03-04-10-2-20   18 36.7 2 4164 2 05.03-04-10-2-20   18 36.7 2 4164 5 PGT-USG*-05.20-1   19 36.7 2 4164 5 PGT-USG*-05.20-1   10 36.7 2 4164 5 PGT-USG*-05.20-1   10 36.7 2 4164 5 PGT-USG*-05.05-0   10 36.7 2 4164 5 PGT-USG*-05.05-0   10 36.7 2 4164 5 PGT-USG*-05.05-0   10 36.7 2 4164 5 PGT-USG*-06.07-0   10 36.7 2 4164 5 PGT-USG*-06.07                                      | 10 36.8 7.3 210 1 55.88 515.5<br>12 36.4 7.3 585.1 10.20.96.3<br>13 36.8 7.3 585.1 10.20.96.3<br>14 36 7.2 518 4 10.50.78.87-106.2<br>15 36 7.2 416.1 10.50.78.84.16.786<br>16 36 7.2 416.4 2 0.80.8-66.754-1<br>17 36 7.2 416.4 2 0.80.8-66.754-1<br>18 36 7.2 416.4 5 PCT US95.0.250-1<br>19 36 7.2 493.1 10.80.8-6.0.250-1<br>20 36 7.2 493.3 1 0.80.8-7.4-2<br>21 36 7.2 493.3 2 0.8-10.8-26.0.250-2<br>22 493.3 2 0.8-10.8-26.0.250-2<br>24 35.4 7.1 10.86 1 0.8-08-26.75<br>25 35.4 7.1 10.86 1 0.8-08-26.75<br>27 35.4 7.1 10.86 1 0.8-08-26.10.8-29.250-2<br>27 35.4 7.1 10.965 5 PCT 0.892.0.1385-4  | σ<br>υ     | 37.4            |          | 4821       | رم)      | 03 913 374-1                                   |             |
| 1   16.8   7.3   16.85   1   10.5  | 1   36.8   7.3   8585   1   105.08-030.096.3   13   36.4   7.3   5852   1   105.08-030.096.3   13   36.4   7.3   5852   1   105.07-867.106-2   14   36   7.2   7.1   4   105.07-867.106-2   15   36   7.2   7.1   4   105.08-98-416-786   16   36   7.2   7.1   4   105.08-98-416-786   17   36   7.2   7.2   4164   2   105.08-660.754-1   18   36   7.2   4164   2   105.08-660.754-1   18   7.2   4164   2   105.08-660.754-1   18   7.2   4164   2   105.08-60.756-1   18   7.2   4164   2   105.08-60.756-1   18   7.2   4933   1   105.08-10.756-1   105.08-10.7  | ٦          | 36.8            | 7        | 210        | -        |  | ì           |
| 12   36.4   7.3   595.2   1   10.5   0.05   | 12 36.4 7.3 5852 1 05.0 C05.3 1 3 3 6 7 2 5852 1 05.0 C05.3 1 1 3 3 6 7.2 618 4 105.0 78.0 50.0 C05.3 1 1 3 3 6 7.2 416.4 2 05.0 50.0 50.0 50.0 50.0 50.0 50.0 50   | =          | 3.6             | 7        | 0 0        | ٠.       | 0 750 000 00 00                                | ò           |
| 13 3.6 7.2 10.8 07-867-106-2 Sequence 13 4.7 7.3 595.2 1 08.08-998-416-78 584wence 14 36 7.2 711 4 08.08-998-416-78 584wence 15 36 7.2 416-4 1.08-08-98-416-78 584wence 15 36 7.2 416-4 1.08-98-416-78 584wence 15 36 7.2 416-4 1.08-08-86-78-1 Sequence 16 36 7.2 410-4 1.08-08-86-78-1 Sequence 16 36 7.2 4933 1 08.08-78-1 Sequence 17 36 7.2 4933 2 08.08-86-08-1 Sequence 18 7.2 4933 2 08.08-86-1 Sequence 18 7.2 4933 2 08.08-86-1 Sequence 18 7.2 4933 2 08.08-86-1 Sequence 18 7.2 4933 5 08-08-86-1 Sequence 18 7.2 4933 5 08-08-86-1 Sequence 18 7.2 4933 5 08-08-86-1 Sequence 18 7.1 10965 1 08-08-107-748-4 Sequence 18 7.1 10965 1 08-08-107-748-4 Sequence 19 7.1 10965 1 08-08-107-748-4 Sequence 19 7.1 10965 1 08-08-86-1 Sequence 19 7.1 110965 1 08-08-86-1 Sequence 10 7.1 110965 1 08-08-86-1 S                                      | 13  |            |                 |          | 01000      | ٠,       | 05-06-050-050-3                                | 'n          |
| 13 56 7.2 618 4 115.05-154-1010-210 Sequence 15 36 7.2 618 4 115.05-154-1010-2-210 Sequence 15 36 7.2 614 4 15.05-154-15-786 Sequence 16 36 7.2 614 4 15.05-05-05-1 Sequence 17 36 7.2 616 4 105.08-66-754-1 Sequence 17 36 7.2 616 5 PCT-US95-05-50-1 Sequence 17 36 7.2 616 5 PCT-US95-05-50-1 Sequence 17 36 7.2 613 2 US-08-66-774-2 Sequence 17 36 7.2 613 2 US-08-66-774-2 Sequence 17 35.4 7.1 10965 1 US-08-25-09-5 Sequence 17 35.4 7.1 10965 1 US-08-24-8 Sequence 17 35.4 7.1 10965 1 US-08-8 Sequence 17 35.4 7.1                                       | 13 56 7.2 618 4 10.5-6-i34 cut; 2.2.10 15 36 7.2 4164 2 08.08-6-i34 675-1 16 36 7.2 4164 2 08.08-6-6-784-1 18 36 7.2 4164 2 08.08-6-6-754-1 18 36 7.2 4164 5 PCT-0595-0.25-0.1 19 36 7.2 4933 1 08.08-6-6-5-0.2 20 36 7.2 4933 2 08-0.6-6-7-7-8-2 21 36 7.2 4933 2 08-0.6-6-7-7-8-2 22 35.6 7.1 0.43 5 PCT-0855-02520-2 24 35.4 7.1 10965 1 08-08-25-0252-2 25 35.4 7.1 10965 5 PCT-0852-01385-4 27 35.4 7.1 10965 5 PCT-0852-01385-4 27 35.4 7.1 10965 1 08-08-25-0352-01385-4 27 35.4 7.1 10965 1 08-08-25-01385-4  | ٠,         | # · /           | ٠.١      | 2080       | -        | US: 07-867-106-2                               |             |
| 4   36   7.2   711   4   US - 08 - 998 - 416 - 786     5   36   7.2   7.1   4   US - 08 - 998 - 416 - 786     6   36   7.2   4164   2   US - 08 - 204   675 - 1     7   36   7.2   4164   2   US - 08 - 204   675 - 1     8   36   7.2   4164   2   US - 08 - 66 - 754 - 1     9   36   7.2   4164   2   US - 08 - 204 - 675 - 1     9   36   7.2   4033   1   US - 08 - 204 - 675 - 2     9   36   7.2   4933   2   US - 08 - 66 - 754 - 2     9   36   7.2   4933   2   US - 08 - 66 - 754 - 2     9   36   7.2   4933   5   PCI - US 95 - 0.2530 - 2     9   9   9   9   9   9   9     9   9   | 4   36   7.2   711   4   0.208-998-416-786   15   36   7.2   711   4   0.208-998-416-786   16   36   7.2   7164   2   0.508-660-755-1   17   36   7.2   7164   2   0.508-660-755-1   18   36   7.2   7164   2   0.508-660-755-1   18   7.2   7164   2   0.508-660-756-1   18   7.2   7.3  | ٠,         | 96              | 7        | æ<br>5     | 7        |  |             |
| 15 36 7.2 4144 1 05 08 204 675.1 Sequence 16 36 7.2 4104 2 08.00 46.60.754.1 Sequence 17.2 4104 2 08.00 46.60.754.1 Sequence 18 36 7.2 4104 2 08.00 46.60.754.1 Sequence 19 36 7.2 4104 5 PCT-US95-0.250.2 Sequence 20 36 7.2 4933 2 US-OR KAN-774-2 Sequence 21 36 7.2 4933 2 US-OR KAN-774-2 Sequence 22 35.6 7.1 0.213 2 US-OR VSPS-0.250.2 Sequence 24 35.4 7.1 10.45 1 US-OR-25-0.250.2 Sequence 25 35.4 7.1 10.46 5 PCT-US92-0.136-4 Sequence 25 35.4 7.1 10.46 5 PCT-US92-0.4 Sequence 27 35.4 7.1 10.47 5 PCT-US92-0.4 Sequence 27 35.4 7.1 10.47 5 PCT-US92-0.4 Sequence 27 35.4 7.1 10                                      | 15 36 7.2 4164 ; GS GB 204 675-1<br>17 36 7.2 4164 2 US-08-665-1<br>18 36 7.2 4164 2 US-08-665-1<br>19 36 7.2 4164 5 PCT-US9-0.2520-1<br>20 36 7.2 4933 1 US-08-0.2520-1<br>21 36 7.2 4933 2 US-08-67-74-2<br>22 35.6 7.1 4533 2 US-08-7-7-4<br>23 35.6 7.1 0.413 2 US-08-5-2<br>24 35.4 7.1 10955 1 US-08-15-7-18-2<br>25 35.4 7.1 10955 5 PCT-US92-0.138-4<br>27 35.4 7.1 10955 5 PCT-US92-0.138-4<br>27 35.4 7.1 11461 3 US-08-161A-29   | 4          |                 | 7.2      | 711        | 4        |  |             |
| 16 36 7.2 4164 2 US-08-660-754-1 Sequence 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.  | 6   36   7.2   4164   2   08-08-660.754-1   3   5   7.2   4164   2   08-08-660.754-1   18   36   7.2   4164   2   08-08-660.754-1   18   36   7.2   4164   2   08-08-62.52-1   2   36   7.2   4932   1   08-08-62.52-1   2   36   7.2   4933   2   08-08-67.52-2   2   35.6   7.2   4933   2   08-08-74-25-2   2   35.6   7.2   4933   2   08-08-74-25-2   2   35.4   7.1   10356   1   08-08-245-809-5   2   35.4   7.1   10465   1   08-08-65-201385-4   2   2   35.4   7.1   11461   3   08-08-65-161A-29   3   3   4   7.1   11461   3   08-08-65-161A-29   3   3   3   3   3   3   3   3   3  | 15         |                 | 7.5      | 4164       |          | 58 304   |             |
| 17 36 7.7 104 2.02.02 73.7.1 Sequence 1. 18 36 7.2 4164 5. PPT-USSG-0.25.0.1 Sequence 1. 18 36 7.2 4164 5. PPT-USSG-0.25.0.1 Sequence 1. 2. 4164 5. PPT-USSG-0.25.0.1 Sequence 1. 2. 4164 5. PPT-USSG-0.25.0.1 Sequence 1. 2. 4164 5. PPT-USSG-0.25.0.1 Sequence 2. 2. 4164 5. PPT-USSG-0.25.0.1 Sequence 3. 4164 5. 41665 1. US-0.8-U07-748-4 Sequence 4. 2. 41646 1. US-0.8-U07-748-4 Sequence 4. 2. 41667 1. US-0.8                                      | 17 36 77 4154 2 00 50 50 50 14 1 1 8 36 77 4154 5 PCT US 95 60 25 1 1 1 1 36 77 2 4933 2 US -08 20 20 50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  | 16         |                 | 7.2      | 4364       |          | 0  | À.          |
| 18 36 7.2 4164 5 PGT-US95-02520-1 Sequence 1  | 18 36 7.2 4164 5 0.08 / 20.5 20.1 1 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2   | -          |                 |          | * 4 - 4    | 1 .      | 7.47.7 000 00 00                               | 7           |
| 19 36 7.2 4164 5 POTT-USSG-0.2520-1 Sequence 1. 20 36 7.2 4933 2 US-08 K660-774-2 Sequence 2. 21 36 7.2 4933 2 US-08 K660-774-2 Sequence 2. 22 36 7.2 4933 2 US-08 K660-774-2 Sequence 2. 23 35.6 7.2 4933 2 US-08 C60-75-1 Sequence 2. 24 35.4 7.1 10565 1 US-09-056 075-1 Sequence 5. 25 35.4 7.1 10965 1 US-08-107-748-4 Sequence 4. 27 35.4 7.1 10965 3 US-08-107-748-4 Sequence 4. 27 35.4 7.1 10965 3 US-08-107-748-4 Sequence 4.   | 19 36 7.2 4184 5 PC-5250-1<br>36 7.2 4933 1 US 08-5550-1<br>20 36 7.2 4933 2 US-08 660-7645<br>21 35 7.2 4933 2 US-08 660-764-2<br>22 35 7.2 4933 2 US-08-08-26-2<br>24 35.6 7.1 10.41 2 US 09-056 075-1<br>25 35.6 7.1 10.45 1 US-08-107-788-4<br>26 35.4 7.1 10.965 5 PCT-0892-01385-4<br>27 35.4 7.1 11461 3 US-08-161A-29   |            |                 |          |            | 4 1      | 05.08 /36-364-1                                | ,           |
| 29 36 7.2 4933 2 105.02.20; 675.2 Sequence 2, 21 36 7.2 4933 2 105.02.20; 675.2 Sequence 2, 22 35.7 1.2 4933 5 02-111.70; -26.4 2.2 Sequence 2, 22 35.6 7.1 2.43 5 PCI-US\$5-0229-2 Sequence 2, 24 35.4 7.1 10365 1 US-08-1245-809-5 Sequence 5, 25 35.4 7.1 10365 1 US-08-107-748-4 Sequence 4, 27 35.4 7.1 10465 S PCI-US\$2-01885-4 Sequence 4, 27 35.4 7.1 10461 S PCI-US\$2-01885-4 Sequence 5, 27 35.4 7.1 10461 S PCI-US\$2-01885-4 Sequen | 20 36 7.2 4933 1 03 08-20; 655 2 36 36 72 4933 2 05-08 660.754.2 2 36 7.2 4933 2 05-08-70; e56 2 2 35.7 4933 2 05-08-70; e56 2 2 35.6 7.1 e543 5 pc.1859; o2550-2 2 4 35.4 7.1 10396 1 05-08-107.748-4 2 35.4 7.1 10965 1 05-08-107.748-4 2 7.1 10965 1 05-08-569-101A-29   | 0 0        |                 | 7.7      | 4164       | Ω        | PCT-US65-02520-1                               |             |
| 20 36 7.2 4933 2 US-08 A60-774-2 Sequence 2.2 36 7.2 4933 5 US-08 A60-774-2 Sequence 2.2 36 7.2 4933 5 PCH-US95-02520-2 Sequence 2.2 35.6 7.1 10346 1 US-09-056 075-1 Sequence 1.2 43.4 7.1 10346 1 US-08-107-7746-4 Sequence 5.2 35.4 7.1 10346 5 PCH-US22-01348-4 Sequence 4.2 35.4 7.1 10465 S PCH-US22-01348-4 Sequence 5.2 35.4 7.1 10465 S PCH-US22-01348-4                                       | 20 36 7.2 4933 2 US-OR 660-754-2<br>22 36 7.2 4933 2 US-OR-754-2<br>23 35.6 7.2 4933 2 US-OR-752-2<br>24 35.4 7.1 10396 1 US-08-245-809-5<br>25 35.4 7.1 10396 1 US-08-107-748-4<br>26 35.4 7.1 10965 5 PCT-US92-01385-4<br>27 35.4 7.1 11461 3 US-08-161A-29   | 7 0        |                 | 7.5      | 4933       |          | 08 08-201-675 2                                |             |
| 21 36 7.2 4933 2 03-048-700-244 2 50-940-000-2 2 2 35.6 7.2 4933 5 PCI-10859-02590-2 Sequence 2 2 35.6 7.1 0.1 0.9 0.0 0.0 0.5 1 Sequence 2 2 35.4 7.1 10.896 1 05-08-245-809-5 Sequence 5 2 35.4 7.1 10.965 1 05-08-245-804-5 Sequence 5 2 35.4 7.1 10.965 5 PCI-1082-0.1 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0  | 22 36 7.2 4533 4 05-008-79-1-564 2 25 35.6 7.1 2433 5 PCI-US55-02520-2 25 35.6 7.1 2433 5 PCI-US55-075-1 24 35.4 7.1 10356 1 US-08-127-748-4 26 35.4 7.1 10965 7 PCI-US52-01385-4 27 35.4 7.1 11461 3 US-08-167-18-29   | 20         |                 | 7.2      | 4933       |          | US-08 660-754-2                                | ic          |
| 22 36 7.2 4533 5 PCI-US95-U2520-2 Sequence 2, 24 35.4 7.1 10396 1 US-09-0056 075-1 Sequence 1, 25 35.4 7.1 10396 1 US-08-U77-748-4 Sequence 5, 35.4 7.1 10465 8 PCI-US95-U253-01385-4 Sequence 4, 27 35.4 7.1 10465 8 PCI-US22-01385-4 Sequence 4, 27 35.4 7.1 11461 3 US-08-U77-748-4 Sequence 4, 35.4 7.1 11461 3 US-08-U77-148-4 Sequence 4, 35.4 7.1 11461 3 US-08-U77-148-2 Sequence 4, 35.4 7.1 11461 3 US-08-U77-148-2 Sequence 4, 35.4 7.1 11461 3 US-08-U77-148-4 Sequence 4, 35.4 7.1 11461 3 US-08-U77-148-2 Sequence 4, 35.4 7.1 11461 3 US-08-U77-148-2 Sequence 5, 35.4 7.1 11461 3 US-08-U77-148-2 Sequence 4,                                       | 22 35.6 7.2 4533 5 PCI-US55-02520-2<br>23 35.6 7.1 0.413 2 US 09-056 075-1<br>24 35.4 7.1 10396 1 US-08-125-809-5<br>25 35.4 7.1 10965 1 US-08-107-748-4<br>27 35.4 7.1 10965 5 PCI-US92-01385-4<br>27 35.4 7.1 11461 3 US-08-1619-129  | e<br>ei    | (1)             |          | 4353       |          | 11 Sept - 20 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - | 4 0         |
| 23 35.6 7.1 0.43 2 US 09.056 075-1 Sequence 2.24 35.4 7.1 10.396 1 US-08-245-809-5 Sequence 1.25 35.4 7.1 10.965 1 US-08-10.7-7.8-4 Sequence 4.25 35.4 7.1 10.965 5 PCT-0.922-0.1385-4 Sequence 4.27 35.4 7.1 10.965 5 PCT-0.822-0.1385-4 Sequence 4.27 35.4 7.1 11.965 5 PCT-0.822-0.1385-4 Sequence 4.27 35.4 7.1 11.965 5 PCT-0.822-0.1385-4 Sequence 4.27 35.4 7.1 11.965 5 PCT-0.822-0.1285-4 Sequence 4.27 35.4 7.1 11.965 5 PCT-0.822-0.1285-4 Sequence 4.27 35.4 7.1 11.965 5 PCT-0.823-0.1285-4 Sequence 4.27 35.4 7.1 11.965 5 PCT-0.25 3                                      | 25 35.6 7.1 6-13 2 0.8 09-056 075-1<br>24 35.4 7.1 10.896 1 08-08-26 075-1<br>25 35.4 7.1 10.965 1 08-08-107-748-4<br>26 35.4 7.1 10.965 5 PCT-0892-01385-4<br>27 35.4 7.1 11461 3 08-08-669-161A-29  | CI         | ~               | 7 2      | 2 2 3      | l l¢     | 1  | 7           |
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9.48; Prod. No. 9.025;
two 182; Mismarches 167; Indela 0; Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OPERATTH: SYSTEM: PS BAS/MS FEB SOFTWARE: Patentin Release #1.0, Version #1.25
                                                    SENERAL TRESERVETORS
APPLICANTS DOTHER, F.
APPLICANTS SCHELFLINGER, F.
APPLICANTS FALKNER, F. G.
APPLICANTS FALKNER, F. G.
APPLICANTS FALKNER, F. G.
APPLICANTS FALKNER, F. G.
COURSEN OF INVENTIONS RECOMBINANT FUNDER VIRES
COURSES OF INVENTIONS ADDRESSS.
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Matches 46; Conservative 182;
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SEQUENCE CHARACTERISTICS:
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. (773/268/11/3
899149
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ALTORNEY/AGENT INFORMATION:
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APPLICATION *EMBITS 11.1
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SIRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CLASSIFICATION: 435
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Patent No. 5670367
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Rest Lacal Similarity 52,9%; Pred. No. 0.83;
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STREET: 3054 Cornwallis Road
TIY Frynt Effangly Fask
STALE: No. 6239264th Carolina
                                                                                                                                                                                                                                                                                                                                  TITLE OF INVENTION: GENOMIC DNA SEQUE
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181—24 : DEC - 1997
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CLASSIFICATION.
PRIOR APPLICATION 435
PRIOR APPLICATION DATA:
AFFLICATION NUBHER: CH 0016/97
FILING DATE: 31-DEC-1996
ATTGRADY/AGEH: THINGHAIDE.
FILLER, MS DOS
                                                                                                                       Sequence 191, Application 85/08998416
Patent No. 6239264
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NAME: BRIGGS, J. Timothy
RESISTRATION NUMBER: 39,241
EFFFFF, T. F. F. MUSHFF, I. F.
TELECOMMUNICATION INFORMATION:
TELEPHONE: 919-541-4587
FELEFAX: 919-541-4689
                                                                                                                                                                                                                                                                                                                 Rebischung, Corinne
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MEDIUM TYPE: Floppy disk
COMPUTER: LWA PY Compatible
-LEDALAG SCHAM, BY LOCKBA
SCHWARE: PATENTE Release #
                                                                                                                                                                                                                                               APPELCANI: Mohr, Christine
APPELCANI: Wendland, Jurgen
APPELCANI: Knechtle, Philipp
                                                                                                                                                                                  APPLICANT: Philippsen, Peter
APPLICANT: Poblmann, Kalner
APPLICANT: Steiner, Sabine
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Us ба 198-1191
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CORRESPONDENCE ADDRESS:
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MALIGIDIE TYPE: CALGINAL SCOREF:
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विकास
                                                                                                                                                                                                                               TILLE OF INVENTION. GENOMIC BAR SECUREDES OF ASHRUA SUBSIPILITIE OF INVENTION: AND USES THEREOF
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Hest Local Similarity 52.9%; Pred. No. 0.84;
Matches 82, Conservative C. Minosches 72, Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: Patentin Release #1.0, Version #1.40 CURRENT APPLICATION DATA: APELICATION DAME: 05/18/1417 FILLING DATE: 24 DEC 1997 CLASSIPICATION: 435
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                                                                                                                                                                                                                                                                                                           ADDRESSEE: No. 6239264artis Corporation
STREEL: 4054 Cornwallis Road
CITY: Research Triangle Park
STATE: No. 6229254th Carollea
                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDIUM TYPE: Floppy disk
COMPUTER: IHM PC compatible
OPENATIRE SYSTEM, PC-1555/MS-DPS
                                 Sequence 683, Application US/OB998416
Patent No. 6239264
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: CH 0016/97
FILING EATE. 1-15EC-1596
ATTORNEY/AGENT INFORMATICH:
NAME: Meigs, J. Timothy
                                                                                                                                                    Mohr, Christine
Wendland, Jurgen
Knochtle, Philipp
Rebischung, Corinne
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  INFORMATION FOR SEQ ID NO: 683:
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GRIGINAL SOURCE:
                                                                                            Philippsen, Peter
Pohlmann, Rainer
Steiner, Sabine
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nucleic acid
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PRICE APPLICATION DATA:
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CORRESPONDENCE ADDRESS:
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                                                                          SENERAL INFORMATIONS
                US-08-998-416-683
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APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
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RESULT 5 US-08-998-416-1036

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Sequence 1336, Application US/Gwaskir
Patent No. 623264
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APPLITANI: Chilippson, Peter
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US-098-416-1434
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FILING DATE, 24 DEC-1997
CLASSIFICALION: 435
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; Patent No. 6239264
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No. 6239264th Carolina
                  APPLICANT: Knechtle, Philipp
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MEDIUM TYPE: Floppy
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                                                                                                    TITLE OF INVENTION:
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NUMBER OF SEQUENCES: 1152
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#PELLOATION WIMMER: US/OB/CSE.416
FILLIN DATE: Z4-DBD-1997
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0: Mismatches
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COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC DOS/MS-POS
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Rebischung, Corinne
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                                                                                                                                    Wendland, Jurgen
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Steiner, Sabine
Kehr, Christine
APPLICANT: Poblimann, Rainel APPLICANT: Steiner, Sabine
                                                      Steiner, Sabine
Mohr, Christine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Wendland, Jurgen
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Matches 82: Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEFANE: 919-541-8587
TELEFAX: 919-541-8689
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REGISTRATION NUMBER: 38
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LENGTH: 854 base pairs
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SIRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE: 24-DEG-1
CLASSIFICATION: 4.45
PRIOR APPLICATION DAIA:
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58 (8-998-416-544
                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SHOUENCES:
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APPLICANT: Philips
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                                                                                           ATHE FUNDITY
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252 GTAGGGASTATTGTTTGATACATTTTGATAGAGATTCAGTGGAGGAAACTGTGAT 411
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Rebischung, Corinne
VERTION, GERAHF BWA SEQUENCY: OF ASHKYA DISSYPTI
VERTION: AND USES THERBOF
EQUENCES: 1152
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AFELCANT. Follmann, Rainer
APELCANT. Steiner, Sabine
APELCANT. Mohr, Christine
APELCANT. Wendland, Jurgen
APELCANT. Wendland, Jurgen
APELCANT. Resetues, Philipp
APELCANT. Resetues, Colinne
TITLE OF HWENTISH. GENERAL GENERAL SAFFII
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                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM PC compatible oFERATIM: SYSTEM BY DOS/MS-DOS SOPTWARE: Patentin Release #1.0, Version #1.30
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                                                                                                                                   E: No. 6239264artis Corporation
3054 Cornwallis Road
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DED CIACCCACIALIGITACATACATTILIALLIGAFAAACAIICAGIGCAGGAAACTGTGAT 311
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               U, Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      7 5%, Soute 37.8; DB 4; Longth 828, 52.9%; Pred, No. 1.1; time 0: Mismitolos 72, Ludois
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CORRESPONDENCE ADDRESS: ADDRESS: ADDRESSER: No 605740.2artis Colporation STREET. P.O. BOX 12257
CITY: Research Triangle Park STATE: No. 6657492th Carolina
                                                                                                                                                                                                                                     LILING DATE: 24-DEC-1997
CLASSIFICATION: 435
PRIOR APPLICATION: 435
PRIOR APPLICATION: DATA:
AFFLICATION NUMBER: CH UULD/97
FILING DATE: 31-DEC-1996
ATFRIED DATE: 31-DEC-1996
ATFRIED PROPER 31-DEC-1996
ATFRIED ON NUMBER: 38,241
REFERENCE,50-NERT NUMBER: 38,241
REFERENCE,50-NERT NUMBER: 38,241
REFERENCE,50-NERT NUMBER: 38,241
RELEPHONE: 919-541-8587
INFORMATION FOR SEQ. 15 NO. 538:
SEQUIPME CHARACTERISTICS:
LENGTH 828 base paive:
TEEE; .....
                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: FlopEy Sisk
"WATTER. IEM FC OCHEALLAL
OPERATING SYSTEM, PC DAS/MS-BUGS
SOPTHWARE: PATORIL Release #1.0, Version #1.30
APPLICATION DATA:
APPLICATION DATA:
FILING DATE: 24-DBC-1997
NUMBER OF SEQUENCES: 1152
CORRESPONDENCE AUDIESS:
ADDRESSEE: No. 6539264LILS Ourpointion
STREET: 3054 Cornwalls Road
CTY: Research Illary CPRE
STATE: No. 65392564th Calolina
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Sequence 1 Application US/08013374
Parent No. 6.657452
GENERAL INFORMATION:
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P: DNA (genomic)
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IBM PC compatible
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TYPE: nucleic acid
STRANDEDNESS: single
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Matches 81, Consernating
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                                                                                                                   COUNTRY: L
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US-08-998-416-538
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45 AACACHAAATATAGAAAAGGGGCHTTATTTTAANCATAGAGCAACAAGAAAAAAAAAGGHI 104
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OPPERATING SYSTEM: PC-LEGE/MS-DOS
SOFTWARP. OPT-CT-C VC LEGE/MS-DOS
CURRENT APPLICATION DATA: PC-LEGE/MS-DOS
CURRENT APPLICATION DATA: RESERVED TO THE COLOR OF T
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TILLS OF PURLICANT COMPETTION PRIMER ASYMMETRIC
TILLS OF INVENTION: COMPETTION PRIMER ASYMMETRIC
TILLS OF INVENTION: COMPETTION REACTION
NUMBER OF SEQUINACES; 7
ADDRESSEE: 0.5. ARMY CHEMICAL AND HIGGORICAL
ANDRESSEE: 0.5. ARMY CHEMICAL AND HIGGORICAL
ANDRESSEE: 0.5. ARMY CHEMICAL AND HIGGORICAL
ANDRESSEE: 0.5. ARMY CHEMICAL
ANDRESSEE: 0.
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Sequence 6, Application US/08628417
Patent No. 5627054
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ATTORNEY/ACTUM INFORMATION:
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MEDIUM TYPE: Florem
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HYPOTHETICAL: NO
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ORIGINAL SOURCE:
OPGANISM: [AST
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Match 7.4%, Score 66.8; DR 1; Length 240; Local Similarity 50.6%, Prod. No. 1.5; os 89; Conservative 0; Mismatches 87; Indels 0; daps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3.4. TEPTITION TITLET PROPILITY FOR THE FOLLOWING FOR FOLLOWING TERMS FOR THE FOREST STATES FOR THE FOREST STA
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Paroettin Moloaso #1 8, Versing #1 99
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STREET: $000 K Street, N.W., Suito 500
CLTY: Washington, D.C.
                                                                      FFFFFFFWOLYCOTEL MUNICIPAL FAM 53 31
TELECOMMUNICATION INFORMATION:
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GENERAL INFERNATOR.

APPLICANT: Fabijanski, Steven F.
APPLICANT: ATHISON, Paul G.
HILE OF HYLNITTH. PURANG SPECTOR.

11 TE. OF PURINGEN. SHAD PRESENTED.
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Patent No. 5426041
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COMPUTER: 18M PC compatible
OPERATING SYSTEM, PC 13 0,795
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                                       4.4, 41.16
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332)682-5399
MILLIAMIT SHYSSES I
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APPLICATION BRIBER, 30 °C
FILING PARE, 20 JUL 199°C
PRIOR APPLICATION DATA:
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LENGTH: 240 bases
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                                                                                                                                                                                             TELEFAX: 410-671-2534
NEVERMATION FOR SEQ ID NOT
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                              REGISTRALLON NUMBER.
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COMPUTER READABLE FORM:
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247 AALPED MAGALAGACAGTATTETTTEGATACTTTTAFTH GATAAACAFTCAGT 298
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                                                                                                                                                                                                                                                                                           (); Mismatches 97; Indels (); Gaps
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                                                                                                                                                                                                                                               Obery Match

7.3%; Score 36.8; DB 1; Length 8585;
Best Local Similarity 49.5%; Pred. No. 2.8;
Matches 45; Conservative 0; Mismatches 97; indets 0:
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APPLICANT: Chang, Andy C M
APPLICANT: williams, Keith L
TILL: TIMENTER, Improved Plasmid Vectors for Cellular
TITLE of INVINITION. Slime Moulds of the Genus Dictyostelium
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CONGLET ALLICATION DAYA:
APPLICATION NOMBER, GC/07/867,106
FILING DATE: 19920625
WIGH APPLICATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            one Liberty Place 46th Floor
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APTLICATION NUMBER: 1017/A090/00530
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; Falcut No. 5389526
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MBER: 35,134
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                                                                                                                       MoleCule TYPF: DNA (genomic)
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(BPORMATION FOR SEQ TO NO. 2:
SEQUENCY CHARACHTRISTICS:
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           SEQUENCE CHARACTERISTICS:
LEMCTH. ... 165 base pairs
TYPE: mucleic acid
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INPORMATION POR SEC ID NO:
                                                                                  double
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GENERAL INFORMALION:
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                                                                           STRANCHDINESS:
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                                                                                                      TOPOLOGY:
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LOCATION:
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US-67-867-106-2
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856 GTAAAATAFAAAATAAHAAHAAHAHILLIHAHAFTATTAAAHAAHATAAHAAGA 419
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  GENERAL INPAGATION:
APPLICANT PHILIPPSEN, Feter
APPLICANT PHILIPPSEN, Feter
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APPLICANT MONDANT MONDAND COLIMBER
TITLE OF INVENTION. AND USES THEREOF
NUMBER OF SPOHENCES, 115
CORRESPONDENCE ADDRESS:
CORRESPONDENCE ADDRESS:
CORRESPONDENCE ADDRESS:
CORRESPONDENCE ADDRESS:
CONTY RESEARCH Triangle Park
STATE: No. 6239264th Carolina
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COMPULER: Hew Per Compartible
OPENATING STREET, THE LOCKSTANS LOS
SOFTWARE: Patentli Release #1.0, Version #1.30
APRICATION DATA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION DATA:
APPLICATION NUMBER OF $15,97
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ATOMNEY/ADDR LINGARMATISM:
NAME: Metqs, J. Timothy
REGISTRATISM NUBHEE: 38,241
PHITPHONY TOTAL TOTAL NUBHEE: 38,241
THIPPHONE 919-541-8597
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CLASSIFICATION: 485
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Best Local Similarity 52.00
East 75: Conservative
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mucloic acid
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INFORMATION FOR SBQ ID NO:
SEQUENCE CHARACTERISTICS:
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US-08-998-416-786
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COUNTRY: US.
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US-09-134-0010-2107C
US-09-134-0010-2107C
Sequence 210. Application US/09134001C
Patent No. 6586370
SEQUENCE INFORMATION:
APPLICANT: Lynn Doncette-Stamm et al
TITLE OF INVENTION: UNCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
FILE REPERENCE: GIC-007
                                                                                                                                                                                                                                                                                                                                                                                              2124 ATACCTIAITTAIAAATATTGGAIAATATATCAAATATTTATCAGTTTTGGGATGACAAT 2183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2244 TITITITITITIAITITIAAITTTTAATTTTTAITTTTCCCACACITICAITTTATT 2303
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                                                                                                                                                                                                                                                                                                                                                                         217 ATACACTACCCAGIATIGIIIGAIACAILITIALITIGAIAAACAITCAGIGGAGGAAACT 306
                                                                                                                                                                                                                                                                                                                                                                                                                                                             307 GIGATITGCIATAIGTITAIGTATATAAATCTIAITCTGTAGTGATGATGATAATGAA 366
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CURRENT APPLICATION NUMBER IS/U4/174,001C CURRENT FILING DATE: 1966-08-13.
PRIOR APPLICATION NUMBER: 05 60/064/964 PRIOR FILING DATE: 1997-11-08 PRIOR FILING DATE: 1997-11-08 PRIOR FILING DATE: 1997-10-14 NUMBER: 05 50/055,779 NUMBER OF SEQ ID NOS: 5574 SEQ ID NO 210
LENGTH: 618
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM: Staphylococcus epidermidis
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Patent No. 6239264
                                                              DNA (genomic)
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               SikANDEDNESS: single
                                                                                                                                                  LOCATION: 2378..5038
                                                                                                                                                                                            | NAME/KEY: CLS | LOCATION: 2478..5038 | US-07-867-106-2
NUCLEIC ACID
                                       linear
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es 63, Conserv
                                                                                                                             NAME/KEY: CDS
                                                                                   ANTI-SENSE: NO
                                       TOPOLOGY: 1. MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-09-134-001C-210
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US-08-998-416-786
                                                                                                                                                                                                                                                                                     Query Match
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HILLE OF INVENTION: In Vitro Transposition of Artificial Inflies of INVENTION: Transposons NIMBER OF ENDINENES: 7

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O'RESPONDENCES: 7

O'RESPONDENCES: 7

SIREET: 1001 G Street, N.W.

CITY: Washington

STATE: D.C.

ZIP: 20001

COMPUTER READALE FORM: 10.5.A.

ZIP: 20001

COMPUTER READALE FORM: 10.5.A.

ZIP: 20001

COMPUTER: HE PLOSE 91.0, Vorsion #1.25

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INFORMATION FOR SIG 10 NO: 1:

SEQUENCE: CARACLERISTICS: 1

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SEQUENCE: CARACLE
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Oneity Match 7.2%; Score 66; 108 l; Longth 4164; Heast Local Similarity 56.9%; Prod. No. 3.9; Matches 66; conservative 0; Mismatches 60; Indels 0; Gaps 0; Watches 40; Architemporary 7.819 Architemporary Architemporar

479 FITTTATTTTAVALGIGLAGITTTTTTTTTTTT 4.44

4915 TEFFGAAATTITIAAACCHIGTHATHITTHECHCATCCASTAACTCTICE 3971

Search completed: January 4, 2003, 15:14:16 Job time : 48.9648 sees

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Copyright, (c) 1993 - 2003 Compager 11d.
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Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Maximum Match 100% Listing first 45 summaries Post -processing: Minimum Match 0%

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#### SUMMARIES

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|        | 2010        | שומירו זו                             | 11160.11                 | Gr.      |                                       | nesc t through   |
| ,      | 501         | 100                                   |                          | ~        | 82 - 1530 - 530 - 38                  | Sequence 28, Appl  |
| C      | 100         | 001                                   |                          | <u> </u> | 90.319 808 80 SE                      | Schoener 28, Appl  |
| 127    | 501         | 100.6                                 |                          | (2       | US 09 860 232A 4                      | Sequence 4. Appli  |
| 4      | 501         | 100.0                                 | 42373                    | 0        | 0.5-09-776.705-3                      | Sequence 3, Appli  |
| 5      | 249.6       |                                       |                          | 10       | US-09-983-965-4394                    | Sequence 4394, At  |
| 4      | 240.8       |                                       |                          | 0        | 93-4-536-786-60-80                    | Sequence 4356, An  |
| 7      | 177         |                                       |                          | 0.1      | US-09-789-919-65                      | Sequence 65, Appl  |
| 000    | 10 T        |                                       |                          | - 2      | Ja J. J. 183 34.5 5363                | Statutored 5 to 3, A   |
| 7      | 45.6        |                                       |                          | €.       | 118-00-060-352-12872                  | A .CF825 90000000  |
| G 10   | 44.2        |                                       |                          | 10       | US-09-960-35/-7419                    | Sydnesice /419, At   |
| 0 11   | 44.2        |                                       |                          | <u></u>  | C-256-150-01-30                       | Sequence 2, Appli  |
| 0 10   | -           |                                       |                          |          | 0.8 0.9 9.0 8.1 14.1.1                | <ul> <li>Contract of the second of the s</li></ul> |
| 13     | 41.2        |                                       | 426                      | 10       | US-09-960-352-8406                    | Sequence 8406, Ap  |
| 1.4    | 40.4        | -:<br>-:<br>-:                        | i.<br>La<br>M            |          | Control of the Control                | Sample Control Age Asset As  |
| 15     | 40.4        | 8.1                                   | 390                      | 10       | US-09-960-352-3640                    | Sequence 3640, Ap  |
| 16     | () <b>†</b> | 9.0                                   | 41.5                     | O        | 03 89 960 352 2419                    | Sequence 2919, At  |
| 17     | 4 0         | 8.0                                   | 425                      | 10       | US-09-960-352-1496                    | Sequence 1496, At  |
| 18     | 3.63        | , , , , , , , , , , , , , , , , , , , | 428                      | 2        | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Sequence 573, App  |
| 61 .3  | 3.65        | . 8                                   | 1738                     | 0        | US 09 925 297 317                     | Sequence 317, App  |

|   | 07         | ,,,             |                     | 446         | -        | 08-09-96m-352-34m   | 7. J.   |
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|   | [7         | * 9             |                     | 21 46       | ,        | 08-10-84552-105   | HV J. J. Sharks   |
|   | (4         | 25°<br>26°<br>2 | 50                  | 5 .         |          | 135 101 960 362 1785  | M. J. J. J. State of the state |
|   | \$ 7       | 2.00            |                     | fall (Fra ) |          | US 07 750 588 1   | Sequeste is Appel   |
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| , | , °        |                 | Pr.                 | 2000        | .7       | 113-09-338-842A-4347  | Seeph new 4347, Ap.   |
|   | 26         | × 8 ×           | 7 . 6.              | 16. 2       | _        | US-09-96 :- 312-7418  | Walter State A  |
|   | 1 4<br>E - | ×               | F-                  |             | .**      | 12 12 12 13 18 18 17 12 13 15 15 15 15 15 15 15 15 15 15 15 15 15 | Section that Colors Apr   |
|   | 32         | S.:             | <b>,</b> .          | 130010      |          | PS 69 797 398-1   | Sequence in Apply   |
|   | Î          | 67.15           | r -                 | 13          |          | 53 57 36 55 572 5747  | Acaparam of 5747, Apr   |
|   | Ç.         | H. 73           | r                   | 3476        |          | US 10 01 912 3  | Sequence 4. Appli   |
|   | 57         | 31. F           | L.                  | 23332       |          | 0.8 69 801 861 4  | Sequence 4, Appli   |
|   | .~<br>~    | 47.4            | 7                   | 476         |          | 2805-228 036 99 30  | Sequence (1987) Apr   |
| , | or<br>or   | ,7 . f.         | υ <sup>-</sup><br>Γ | 4:6         |          | US 69 960 352 4584  | Stephenics 4584, Ap   |
| c | 77         | .1.             | r-                  | 5.0.7       | 5        | US 19 348 842A-4454   | Secpretary Contract Apr   |
|   | L.).       | 1               | r-1                 | 5.7.3       |          | US 67 560 372 2051  | Sequestre 2009, Ap  |
|   | \$ £5      | 17              | ,<br>-              | 1708 44     | -        | 115-01-8 (5-2 (2-7  | Sequence 7. April   |
|   | ر.<br>د    |                 |                     | 2 12        |          | UN 09 960 352 8414  | Sequence 8414, Apr  |
|   | 20         | 1.              |                     | ur<br>Si    |          | 55 83 Steel 1 2-1 19  | Stellar tarter 1 last. Apr  |
|   | 44         | 17.2            |                     | 4 + 4       | -        | US-049-960-452-1009   | Segmenter 1929, Apr   |
|   | <u>.</u>   | <br>            | -                   | 500         | Ĭ.       | US-64-4611-452-2666   | Sequence Title, Ap  |
|   | 4.1        | *7              |                     | 2 FIND Q    | 5        | US-09 938 842A-4690   | Sequence 4 (90), Ap.  |
|   | 4.2        |                 |                     | 474         | Ĩ.       | 118-33-96 - 352-12901   | Sectionary 128 d. A   |
|   | 4.3        | 46.84           |                     | 204         | -        | US 09-960-352-6962  | Sequence ('#2, Ap   |
|   | 44         | 32° 34          |                     | 747         | <u> </u> | 11S-63-96-1-452-4874  | Sent to the All Al  |
|   | e.         | 46. X           |                     | 7           | _        | BS-09-960-352-12412   | A 10 [40] 100 EVEN A  |

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SOFTWARE: PARCOTTE TOWNS: 20
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                             196 TGAACAATIGCTCTCCCTCTCCTTCCATCCTCATTCAGAATTTTTAGAAGACCAGAATC 255
                                                              241 GTGGAGATACACTACCAGTATTGTTTGATACATTTTTTATTTGATAAACATTGAGTGCAG 3.00
                                                                                 421 AGPALT MARTAT GGGGGGGGGGGGGGGAATTAAGT FGGTGGGCT CGAAAAFCCATT 480
                                                                                                                                                                                                                                                                                  61 AGGGGCTTPATTFCAATCAFAGACAACAAAAATAAFGCTFAFAGFTAAACTGCCTG 120
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100.0%; Pred. No. 9.1e 97;
Live 9, Mishatches 0, Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Rosen et al.
HILLE OF INVENTION: 49 Human Secreted Proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION NUMBER: 05/09/2004,036
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CURKENT FILLING DATE: 2001-07-16
PRIOP APPLICATION NUMBER: 99/511,554
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION NUMBER: 60 02 24
PRIOR APPLICATION NUMBER: 60 000 017
PRIOR PILING PAIR: 1938-08-35
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PRIOR FILING DATE: 1998-08-31
NUMBER OF SEQ ID NOS: 170
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Parent No. US20020026040Al
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401 GAAACTGTGATTTGCTATATGTTTATGTATATGTTATTCTTATTCTGTAGTCALCAGAATCTT
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TILLE OF INVINCE: N. 57256 AND 59299, M.YEL BUMAN
TILLE OF INVINCED TEAMSPORTERS AND USES THEREOF
FILE METERMENE: 881552001500
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STREAM TELMA DATE: 001-05-17
PRIOR APPLICATION NUMBER: US 60/205,288
PRIOR FILING DATE: 2000-05-19
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SOFTWARE: PastSEQ for Windows Version 4.0
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; Patent No. 08/20020494A1
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HILLE OF INVENTION: ISOLATER HUMAN TRANSPORTER PROTITINS,
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flarity 100.0%; Pred. Mo. 1.7: 96;
Corservation 0; Mismath
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CURKENT PLIAN DATE: 2001-02-06
NUMBER OF PER ID AJS: 5
SOFTWARE: PastSEQ for Windows Version 4.0
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: Patent No. USZU020082191A1
: GENERAL INFORMATION:
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APPLICANT: Bathialidan, Natappan
TIELE OF INVENTION: MOSTLE ACT. AND CHEEK MADERIASES ASTADATES WITH LANALION AND
TILLE OF INVENTION: MOSTLE AND FAI DERISEITEN
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    CHIEF SEE SHEETS RESISTANCE INC. ACCURAGE NIBER OF B. D. EL N.S.
18-09, 983-963-4 cs4.

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CORRECT TILLYN CARLE LOOD IN 26

PRIVATE PRIVATE WINDERS OF 09/465, 243

PRIVATE PRIVATE POSTIL 15

PRIVATE PRIVATE NOTE 12

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CURRENT PELLING TATE: ZOOL-TO-ZO
PRIOR APPLICATION BURBEILE, BG (S)/146,523;
PRIOR FILING TATE: TOPM 12 18
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Application SZOPSECF5;
: Patent No. US20020137160A1
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APPLICANT: Warrow, Wosloy C.
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GENERAL INF-PHALL N:
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GENERAL INFORMATION.
APPLICANI: Warren Wesley (.
APPLICANI: Tao, Nengbing
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Matches 62; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             27; Indels
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Pred. No. 4e:40;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             U; Mismatches
PRIOR APPLISATION NUMBER: 03 60/113,628
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Parent No. 082002064855Al
GENERAL INFORMATION.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Rost Logal Similarity 89.8%;
                                    PRIOR FILING DATE: 1998-12-17
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                                                                    NUMBER OF SEQ ID NOS: 5912
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ORGANISM: Mus musculus
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                                                                                                                                                                                                                                  ORGANISM: Bos taurus
                                                                                                                                                                                                                                                                                                                                                        US-09-983-965-4356
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                                                                                                                 SEQ 1D NO 4356
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APPLICANT: Tao, Nemphing
APPLICANT: Byatt, John C.
APPLICANT: Byatt, John C.
APPLICANT: Mathialagan, Nagapan
TITLE OF INVENTION MUSCLEIC AND OTHER MOLECULES ASSOCIATED WITH LATTALL AND
TITLE OF INVESTIGATE AND STEE AND ETHER MOLECULES ASSOCIATED WITH LATTALL AND
FILE REFERENCE: 16511.006/37-21(10298)C
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APPLICANT: Mystr, John C.
APPLICANT: Mystr, John C.
APPLICANT: Mystrain and C. Mystrain Mystra
2513 HGGGAGAGA ACTAGCCCAGTATTGTTTTTTTTTTTTTGATAACATTGAGAGA 2572
                                                                                                                                                                                                                                                                                            2693 CAAAAACTIIATTATAADAAAA36--16GGGGAAGAAATAAGCTGGTGGGTGGGTGAAAAAACC 2753
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08-09-983-965-5364
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PRIOR FILLING DAFE: 1998-12-17
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Patent No. US/0626137139Al
GENERAL INFORMATION:
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APPLICANT: Byatt, John C.
APPLICANT: Mathialasan, Nagappan
APPLICANT: Mathialasan, Nagappan
APPLICANT: MATHIAL MATHEMATICAL NAGALY AND AN STREET BY INCHILS AND MATHEMATICAL NAGALY AND THILLE OF INVENTION, MUSICLE AND FAT DEFOSITION
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                                                                                                                                                                                                                                                                                                                                                          192 CTCCCTCTCTCCTTCCATCCTTCATTTTTAGAAGACCACAATCGTGGAGATACA 251
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                                                                                                                                                                                        9.1%; Score 45.6; PR 10; Length 479;
49.0%; Prod No. 0.31;
Tye 0: Mismatches 154; Endels 1,
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PETHER INFORMATI N. CLODE ID. 12 LIRAGEZ 025 QL KI-RII
                                                                                                    ) ORGANISM: BOS taurus
) O'HER INFORMATION: Closse ID: 56 IIB3067 018 21 E) FG
08-20-402-12872
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CURRENT PILLING DATE: 2001-09-24 NUMBER OF SECTO NOS: 15112 SECTO NO 12872
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Matches 149, Conservative
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APPLICANT: Mathialagan, Nagappan
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TITLE OF INVINCENCE AND FAR LAFFSTITSS.
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                                                                                                                                                     8.6%; Score 44; PH 10; Londt, 411;
46.7%; Pred. No. 1.1;
five o: Mismatches 195; Indess
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LITLE of INVENTE WE Methods of Administering Bold Since Loxin
FILE REPERPER: 29 9017P
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CURKENT AFTLE ATTOR REMBER, R07497052, 352
CURKENT FILING WATE: 0002-01 13
PRIOR APPLICATION NUMBER 195730, 237
PRIOR FILING BATE: 2000-12705
NUMBER OF UB, II: REGI 12
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GENERAL INPERATION:
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APPLICANT: 18941, July G.
APPLICANT: Byat, July G.
TITLE OF INVENTION. NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACDATE AND TITLE OF INVENTION: MUSCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACDATE AND FILE REPRESENCE: 16511.006/37-21(10.99) C.
CURRENT APPLICATION NUMBER: 35,05,960,452
CURRENT APPLICATION DATE: 2001-09-24
SUMBER OF SEC ID NGS: 15112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               274 TEFFTATTGATAACATTGAGGGGGAGAACTGTGATTTGCTATATGTTAALAFA 343
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                                                                                                                                                                                                                                                                                                                                                                                                   uery Match 8.1%; Score 40.4; DB 10; Length 350; est Local Similarity 53.1%; Pred. No. 3.6;
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                                                                                                                                                                                                                                                 ORDANISM: Bos taurns
2 OTHER UNIVERSALFER: Clone 1D: 14-LIB3058-057-01-K1 D9
US-09-960 452-2939
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                         76;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0; Mismatches
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   ETTE KEFERRACE: 16511.006/47-21(10298)C
SURRENT PATTALACEM KORMES. 08/79/960,492
CHERRENT FILLNE DATE: 2001-09-24
NUMBER OF SEV ID NOS: 15112
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: Patent No. 0820020137139A1
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ITHE OF INVENTION: MOSCLE AND SHEEK MESPULES ASSOCIATED WITH LACTATION AND
ITHE OF INVENTION: MOSCLE AND FAI DEPOSITION
FILE DEFENDANCE, 16911, 206537-21, 20089, 52
CORRENT APPLICATION NUMBER: 18,709,7460, 45,2
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APPLICANI: Byatt, John C.
APPLICANI: Mathialadan, Naqappan
FITIE OF INVENTION: NEOLEGE AND FAI DIPOSITION
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                                                                                                                                                                                                                                                     401 GAAACUGEGATITGOTATATGITTAEGEATATAAALGITATETGIGAGEATGAAGTI 360
                                                                                                                                                                                                            241 GIGGAGATAPACIANTNATATISTITVALAMATATITTIATETOATAAACATEMATATEMATATAN 300
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50 5%, Pred HS, 2.6,
live 0; Mismatches 98;
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APPLICANT: Byatt, John C.
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